

Thr Gly Asp Leu Ala Val Glu Leu Ser Lys Thr Asp Pro Ala Ser Leu  
 450 455 460  
 Glu Thr Gly Gln Asp Ser Glu Asp Asp Ser Gly Glu Pro Glu Asp Trp  
 465 470 475 480  
 Val Pro Asp Pro Val Asp Ala Asp Pro Gly Lys Ser Ser Ser Lys Arg  
 485 490 495  
 Arg Ser Ser Asp Ile Ile Ser Leu Leu Val Ser Ile Tyr Gly Ser Lys  
 500 505 510  
 Asp Leu Phe Ile Asn Glu Tyr Arg Ser Leu Leu Ala Asp Arg Leu Leu  
 515 520 525  
 His Gln Phe Ser Phe Ser Pro Glu Arg Glu Ile Arg Asn Val Glu Leu  
 530 535 540  
 Leu Lys Leu Arg Phe Gly Glu Ala Pro Met His Phe Cys Glu Val Met  
 545 550 555 560  
 Leu Lys Asp Met Ala Asp Ser Arg Arg Ile Asn Ala Asn Ile Arg Glu  
 565 570 575  
 Glu Asp Glu Lys Arg Pro Ala Glu Glu Gln Pro Pro Phe Gly Val Tyr  
 580 585 590  
 Ala Val Ile Leu Ser Ser Glu Phe Trp Pro Pro Phe Lys Asp Glu Lys  
 595 600 605  
 Leu Glu Val Pro Glu Asp Ile Arg Ala Ala Leu Glu Ala Tyr Cys Lys  
 610 615 620  
 Lys Tyr Glu Gln Leu Lys Ala Met Arg Thr Leu Ser Trp Lys His Thr  
 625 630 635 640  
 Leu Gly Leu Val Thr Met Asp Val Glu Leu Ala Asp Arg Thr Leu Ser  
 645 650 655  
 Val Ala Val Thr Pro Val Gln Ala Val Ile Leu Leu Tyr Phe Gln Asp  
 660 665 670  
 Gln Ala Ser Trp Thr Leu Glu Glu Leu Ser Lys Ala Val Lys Met Pro  
 675 680 685  
 Val Ala Leu Leu Arg Arg Arg Met Ser Val Trp Leu Gln Gln Gly Val  
 690 695 700  
 Leu Arg Glu Glu Pro Pro Gly Thr Phe Ser Val Ile Glu Glu Glu Arg  
 705 710 715 720  
 Pro Gln Asp Arg Asp Asn Met Val Leu Ile Asp Ser Asp Asp Glu Ser  
 725 730 735  
 Asp Ser Gly Met Ala Ser Gln Ala Asp Gln Lys Glu Glu Glu Leu Leu  
 740 745 750

Leu Phe Trp Thr Tyr Ile Gln Ala Met Leu Thr Asn Leu Glu Ser Leu  
 755 760 765  
 Ser Leu Asp Arg Ile Tyr Asn Met Leu Arg Met Phe Val Val Thr Gly  
 770 775 780  
 Pro Ala Leu Ala Glu Ile Asp Leu Gln Glu Leu Gln Gly Tyr Leu Gln  
 785 790 795 800  
 Lys Lys Val Arg Asp Gln Gln Leu Val Tyr Ser Ala Gly Val Tyr Arg  
 805 810 815  
 Leu Pro Lys Asn Cys Ser  
 820

<210> 1509  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 1509  
 Met Leu Gln Ala Ala Ser Leu Ser Leu Val Thr Trp Val Val Cys Thr  
 1 5 10 15  
 Val Trp Leu Glu Thr Thr Val Pro Pro Ser Leu Pro Glu Pro Pro Met  
 20 25 30  
 Trp Pro Leu Ser Ser Asp Ser Ser Trp Ser Leu Trp Ile Ser Thr Gly  
 35 40 45  
 Met Ala Pro Ala Pro Ser Ser Ser Thr Arg Ser Phe Ser Val Leu Pro  
 50 55 60  
 Glu Ile Cys Phe Cys Leu Trp  
 65 70

<210> 1510  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 1510  
 Met Ala Gly Val Trp Asn Thr Ile Ala Leu Trp Phe Leu Ser Val Phe  
 1 5 10 15  
 Gly Val Ile Ser Ala Pro Thr Thr Gly Thr Ser Pro Thr Ser Cys Arg  
 20 25 30  
 Cys Val Gly Pro Arg Pro Pro Gly Cys Gly Pro Ala Gly  
 35 40 45

<210> 1511  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1511  
 Met Glu Leu Glu Arg Cys Ser Val Val Leu Cys Ile Leu Ala Asn Leu  
   1                  5                  10                  15  
 Ala Val Leu Arg Ala Leu Phe Leu Pro Cys Ile Ile Phe His Cys Val  
                   20                  25                  30  
 Ser Asp Ser Arg Ser Val Asn Arg Glu Thr Lys Val Lys Phe Val His  
           35                  40                  45  
 Thr Ser Val His Gly Val Gly His Ser Phe Val Gln Ser Ala Phe Lys  
       50                  55                  60  
 Ala Phe Xaa Leu Val Pro Pro Glu Ala Val Pro Glu Gln Lys Asp Pro  
   65                  70                  75                  80  
 Asp Pro Glu Phe Pro Thr Val Lys Tyr Pro Asn Pro Glu Glu Gly Lys  
                   85                  90                  95  
 Gly Val Leu Val Thr  
                   100

<210> 1512  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1512  
 Met Ala Ala Arg Ser Ala Leu Ala Leu Leu Leu Leu Pro Val Leu  
   1                  5                  10                  15  
 Leu Leu Pro Val Gln Ser Arg Ser Glu Pro Glu Thr Thr Ala Pro Thr  
                   20                  25                  30  
 Pro Thr Pro Ile Pro Gly Gly Asn Ser Ser Xaa Ser Arg Pro Leu Pro  
           35                  40                  45  
 Ser Ile Glu Leu His Ala Cys Gly Pro Tyr Pro Lys Pro Gly Leu Leu  
       50                  55                  60

Ile Leu Leu Ala Pro Leu Ala Leu Trp Pro Ile Leu Leu  
65 70 75

<210> 1513  
<211> 188  
<212> PRT  
<213> Homo sapiens

<400> 1513  
Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys ThrGlu Val Arg  
1 5 10 15  
Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Ala Ala Asp  
20 25 30  
Ser Lys Asp Glu Glu Val Lys Val Ala Pro Arg Arg Ser PheLeu Asp  
35 40 45  
Phe Asp Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val  
50 55 60  
Gln Cys Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu  
65 70 75 80  
Ser Ile Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val  
85 90 95  
Leu Thr Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg  
100 105 110  
His Gln Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr  
115 120 125  
Ser Gly Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro  
130 135 140  
Leu Gln Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala  
145 150 155 160  
Ile Leu Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala  
165 170 175  
Pro His Ala Val His Pro Thr Gly Thr Lys Ala Leu  
180 185

<210> 1514  
<211> 86  
<212> PRT  
<213> Homo sapiens

<400> 1514  
Met Leu Leu Gly Gly Arg Leu Leu Thr Gly Leu Ala Cys Gly ValAla



1	5	10	15
Ser Leu Val Ala Pro Val Ser Val Pro Ser Leu Glu Cys Pro Val Ser	20	25	30
Arg Pro Glu Thr Glu Gly Glu Trp Asp Lys Pro Leu Pro Arg Pro Gly	35	40	45
Gly Ala Ala Pro Pro Gly Gly Thr Phe Trp Val Pro Gly Leu Lys Ser	50	55	60
Leu Arg Tyr Leu Ala Val Pro Pro Val Asp Pro Gly Lys Asp Pro Thr	65	70	75
Val Leu Ser Ile Leu His	85		

<210> 1515  
 <211> 246  
 <212> PRT  
 <213> Homo sapiens

<400> 1515
Met Ala Leu Leu Cys Leu Val Cys Leu Thr Ala Ala Leu Ala His
1 5 10 15
Gly Cys Leu His Cys His Ser Asn Phe Ser Lys Lys Phe Ser Phe Tyr
20 25 30
Arg His His Val Asn Phe Lys Ser Trp Trp Val Gly Asp Ile Pro Val
35 40 45
Ser Gly Ala Leu Leu Thr Asp Trp Ser Asp Asp Thr Met Lys Glu Leu
50 55 60
His Leu Ala Ile Pro Ala Lys Ile Thr Arg Glu Lys Leu Asp Gln Val
65 70 75 80
Ala Thr Ala Val Tyr Gln Met Met Asp Gln Leu Tyr Gln Gly Lys Met
85 90 95
Tyr Phe Pro Gly Tyr Phe Pro Asn Glu Leu Arg Asn Ile Phe Arg Glu
100 105 110
Gln Val His Leu Ile Gln Asn Ala Ile Ile Glu Ser Arg Ile Asp Cys
115 120 125
Gln His Arg Cys Gly Lys Gln Gly Ser Val Gln Ala Glu Gly Arg Ala
130 135 140
Gly Gly Ser Ser Gly Pro Trp Arg Leu Arg Gly Ala Leu Ala Ala Leu
145 150 155 160
Val Arg Val Ser Gly Ile Phe Gln Tyr Glu Thr Ile Ser Cys Asn Asn
165 170 175

Cys Thr Asp Ser His Val Ala Cys Phe Gly Tyr Asn Cys Glu Ser Ser  
 180 185 190  
 Ala Gln Trp Lys Ser Ala Val Gln Gly Leu Leu Asn Tyr Ile Asn Asn  
 195 200 205  
 Trp His Lys Gln Asp Thr Ser Met Ser Leu Val Ser Pro Ala Leu Arg  
 210 215 220  
 Cys Leu Glu Pro Pro His Leu Ala Asn Leu Thr Leu Glu Asp Ala Ala  
 225 230 235 240  
 Glu Cys Leu Lys Gln His  
 245

<210> 1516  
 <211> 246  
 <212> PRT  
 <213> Homo sapiens

<400> 1516  
 Met Gly Pro Gln His Leu Arg Leu Val Gln Leu Phe Cys Leu Leu Gly  
 1 5 10 15  
 Ala Ile Ser Thr Leu Pro Arg Ala Gly Ala Leu Leu Cys Tyr Glu Ala  
 20 25 30  
 Thr Ala Ser Arg Phe Arg Ala Val Ala Phe His Asn Trp Lys Trp Leu  
 35 40 45  
 Leu Met Arg Asn Met Val Cys Lys Leu Gh Glu Gly Cys Glu Glu Thr  
 50 55 60  
 Leu Val Phe Ile Glu Thr Gly Thr Ala Arg Gly Val Val Gly Phe Lys  
 65 70 75 80  
 Gly Cys Ser Ser Ser Ser Ser Tyr Pro Ala Gln Ile Ser Tyr Leu Val  
 85 90 95  
 Ser Pro Pro Gly Val Ser Ile Ala Ser Tyr Ser Arg Val Cys Arg Ser  
 100 105 110  
 Tyr Leu Cys Asn Asn Leu Thr Asn Leu Glu Pro Phe Val Lys Leu Lys  
 115 120 125  
 Ala Ser Thr Pro Lys Ser Ile Thr Ser Ala Ser Cys Ser Cys Pro Thr  
 130 135 140  
 Cys Val Gly Glu His Met Lys Asp Cys Leu Pro Asn Phe Val Thr Thr  
 145 150 155 160  
 Asn Ser Cys Pro Leu Ala Ala Ser Thr Cys Tyr Ser Ser Thr Leu Lys  
 165 170 175

Phe Gln Ala Gly Phe Leu Asn Thr Thr Phe Leu Leu Met Gly Cys Ala  
 180 185 190  
 Arg Glu His Asn Gln Leu Leu Ala Asp Phe His His Ile Gly Ser Ile  
 195 200 205  
 Lys Val Thr Glu Val Leu Asn Ile Leu Glu Lys Ser Gln Ile Val Gly  
 210 215 220  
 Ala Ala Ser Ser Arg Gln Asp Pro Ala Trp Gly Val Val Leu Gly Leu  
 225 230 235 240  
 Leu Phe Ala Phe Arg Asp  
 245

<210> 1517  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1517  
 Met Trp Ser Ser Ser Trp Asp His Arg Ile Thr Thr Pro Arg Leu Ala  
 1 5 10 15  
 Asn Phe Phe Phe Phe Phe Phe Phe Phe Phe Val Glu Met Gly Phe  
 20 25 30  
 Arg Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu Ala Ser Ser Asn Leu  
 35 40 45  
 Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His  
 50 55 60  
 Xaa Trp Leu Gly Gly Leu Ile Lys Thr Pro Ile Leu Ser Leu Thr Pro  
 65 70 75 80  
 Arg Val Ser Gly

<210> 1518  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1518  
 Met Leu Gln Glu Val Lys Leu Asp Phe Leu Trp Leu Leu Asn Leu Pro  
 1 5 10 15

Leu Ile Leu Leu Phe Ser Ile Leu Glu Ser Ser Met Lys Ie Cys Thr  
20 25 30

Asn Ala Met Phe Thr Arg Thr Gly  
35 40

<210> 1519  
<211> 110  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1519  
Met Phe Leu Ala Ser Trp Leu Leu Phe Cys Ile Val Ala Pro Lys Asp  
1 5 10 15

Asp Ala His Leu Ser Phe Ile Gln Cys Lys Asp Ile Trp Lys Asp Asn  
20 25 30

Arg Lys Tyr Ser Cys Phe His Phe Lys Ser Asp Gln Leu Leu Glu Leu  
35 40 45

Ala Ser Lys Ala Cys Thr Ser Phe Gln Ala Gln Ser Arg Ser Phe Thr  
50 55 60

Ala Gly Ala Val Pro Ser Glu His Pro Glu Leu Pro Cys Gly Ser Gln  
65 70 75 80

Gln Leu Cys Cys Gly Cys Thr Ala Arg Leu Gly Gly Xaa Trp Ile Gly  
85 90 95

Ala Ser Arg Cys Gly Ser Gly Ser Ala Phe Leu Ala Ser Pro  
100 105 110

<210> 1520  
<211> 59  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1520  
Met Trp Thr Ala Arg Arg Cys Thr Glu Thr Val Ala Val Ser Leu Arg  
1 5 10 15

Ile Phe Pro Leu Val Leu Ala Met Pro Leu Gln Gly Lys Cys Thr Ser

20                      25                      30  
 Thr Cys Gln Arg Lys Pro Leu Leu Leu Val Phe Ile Phe Val Val Asn  
                     35                      40                      45  
 Phe Leu Tyr Ile Pro Xaa Ala Ala Phe Leu His  
                     50                      55

<210> 1521  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 1521  
 Met Lys Tyr Leu Leu Phe Leu Val Phe Cys Leu Ser Tyr Val Lys Asp  
   1                                    5                                    10                                    15  
 Leu Asn Ile Phe Asp Leu Leu Tyr  
                     20

<210> 1522  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1522  
 Met Cys Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser  
   1                                    5                                    10                                    15  
 Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly  
                     20                                    25                                    30  
 Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu  
                     35                                    40                                    45  
 Leu Pro Arg Thr Asn Leu Lys Gly  
                     50                                    55

<210> 1523  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1523  
 Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys  
   1                                    5                                    10                                    15  
 Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser  
                     20                                    25                                    30  
 Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu

35                      40                      45  
 Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu  
       50                      55                      60

<210> 1524  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1524  
 Met Gln Glu Cys Leu Leu His Gly Cys Cys Cys Tyr Leu Leu Arg Leu  
       1                      5                      10                      15  
 Gly Val Leu Gly Thr Val Gln Cys Ile Ser Thr Trp Leu Ile Leu Thr  
                     20                      25                      30  
 Ala Asn Glu Gln His Arg Leu Lys Glu Thr Ser Asn Ser Gln Ser Pro  
                     35                      40                      45  
 Ala Val Ser Arg Ala  
                     50

<210> 1525  
 <211> 231  
 <212> PRT  
 <213> Homo sapiens

<400> 1525  
 Met Trp Ala Leu Gln Leu Ser Leu Pro Thr Cys Gly Leu Ala Ala Leu  
       1                      5                      10                      15  
 Leu Thr His Met Arg Pro Cys Ser Ser Pro Tyr Pro His Ala Gly Leu  
                     20                      25                      30  
 Ala Ala Leu Leu Thr His Met Gly Pro Cys Arg Ser Pro Tyr Pro His  
                     35                      40                      45  
 Gly Gly Leu Ala Ala Val Leu Thr His Met Arg Ala Leu Gln Leu Ser  
                     50                      55                      60  
 Leu Pro Thr Trp Gly Leu Ala Ala Leu Leu Thr His Met Arg Pro Cys  
       65                      70                      75                      80  
 Ser Ser Pro Tyr Pro His Ala Gly Leu Ala Cys Cys Trp Leu Trp Ser  
                     85                      90                      95  
 Leu Ser Ser His Arg Ser Leu Gln Val Gln Ala Thr His Arg Leu Val  
                     100                      105                      110  
 Val Arg Thr Ile Lys Asp Arg Val Met Leu Lys Val Leu Pro Gln Thr  
                     115                      120                      125

Arg Arg Arg Gly Pro Phe Leu Ser Ser Cys Arg Asn Asp Val Met Arg  
 130 135 140  
 Asn Cys Val Pro Arg His Ala Val Leu Val Thr Thr Cys Val Phe Val  
 145 150 155 160  
 Ser Phe Pro Thr His Cys Lys Val Gly Ile Thr Gly Pro Ile Thr Gln  
 165 170 175  
 Val Lys Gln Lys Pro Gly Asn His Ser Ser Pro Cys Pro Val Ile Gln  
 180 185 190  
 Leu Val Ala Lys Ala Glu Phe Glu Leu Met Leu Pro Ser Val Pro Lys  
 195 200 205  
 Pro Val Tyr Leu Thr Leu Val Leu Ser Cys Trp Cys Leu Cys Asp Val  
 210 215 220  
 Pro Cys Leu Ser Val Ser Leu  
 225 230

<210> 1526  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1526  
 Met Asn Phe Leu Val Phe Leu Ser Leu Ser Ser Ser Leu Val Ser Ala  
 1 5 10 15  
 Ala Gly Pro Arg Phe Pro Ser Arg Glu Glu Arg Gly Val Gly Gly Val  
 20 25 30  
 Val Leu Ile Lys Ser Glu Asp Met Thr Leu Xaa Glu Arg Ser Lys Gly  
 35 40 45  
 Ser Xaa  
 50

<210> 1527  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 1527

Met Cys Gly Leu Val Ile Leu Trp Pro Cys Ile Met Thr Leu Phe Ser  
1 5 10 15

Ser Leu Ser Thr Gly Asp Val Leu Leu Pro Cys Lys Ile Leu Val Gly  
20 25 30

Leu Arg Val Phe Ile Gly Ala Arg Val  
35 40

<210> 1528

<211> 32

<212> PRT

<213> Homo sapiens

<400> 1528

Met Pro Val Pro Leu Trp Leu Val Leu Trp Phe Cys Phe Leu Leu Tyr  
1 5 D 15

Val Ala Ser Arg Arg Thr Phe Gly Leu Ala Asn Tyr Met Pro Leu Pro  
20 25 30

<210> 1529

<211> 362

<212> PRT

<213> Homo sapiens

<400> 1529

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro  
1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys  
20 25 30

Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg  
35 40 45

Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His  
50 55 60

Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp  
65 70 75 80

Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr  
85 90 95

Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln  
100 105 110



Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp  
 115 120 125  
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu  
 130 135 140  
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe  
 145 150 155 160  
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr  
 165 170 175  
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu  
 180 185 190  
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly  
 195 200 205  
 Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly  
 210 215 220  
 Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro  
 225 230 235 240  
 Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro  
 245 250 255  
 Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly  
 260 265 270  
 Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala  
 275 280 285  
 Arg Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp  
 290 295 300  
 Ser Gln Ala Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly  
 305 310 315 320  
 Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu  
 325 330 335  
 Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly  
 340 345 350  
 Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu  
 355 360

<210> 1530

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1530

Met Cys Tyr Ile Pro Gly Ser Thr Gly Gly Gln Cys Trp Pro Trp Cys

1	5	10	15
Trp Cys Trp	Leu Cys Arg	Glu Ala Leu	Glu Trp Leu Cys Gly Ala Val
	20	25	30
Ser Ala Gly	Pro Ala		
	35		

<210> 1531  
 <211> 318  
 <212> PRT  
 <213> Homo sapiens

<400> 1531  
 Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser  
 1 5 10 15  
 Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val  
 20 25 30  
 Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala  
 35 40 45  
 Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val  
 50 55 60  
 His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln  
 65 70 75 80  
 Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg  
 85 90 95  
 Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr  
 100 105 110  
 Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu  
 115 120 125  
 Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Ala Gly  
 130 135 140  
 Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe  
 145 150 155 160  
 Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser  
 165 170 175  
 Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu  
 180 185 190  
 Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met  
 195 200 205  
 Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly  
 210 215 220

Asp Trp Arg Arg Lys His Gly Gln Ala Gly Lys Arg Lys Tyr Ser Ser  
 225 230 235 240  
 Ser His Ile Tyr Asp Ser Phe Pro Ser Leu Ser PheMet Asp Phe Tyr  
 245 250 255  
 Ile Leu Arg Pro Val Gly Pro Cys Arg Ala Lys Leu Val Met Gly Thr  
 260 265 270  
 Leu Lys Leu Gln Ile Leu Gly Glu Val His Phe Val GluLys Pro His  
 275 280 285  
 Ser Leu Leu Gln Ile Ser Gly Gly Ser Thr Thr Leu Lys Lys Gly Pro  
 290 295 300  
 Asn Pro Trp Ser Phe Pro Ser Pro Cys Ala Leu Phe Pro Thr  
 305 310 315

<210> 1532  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 1532  
 Met Ser Gln Leu Ser Arg Thr Ser Leu Ser Leu Leu Leu Thr Leu Leu  
 1 5 10 15  
 Val Leu Trp Gly Ser Ser Cys Cys Leu Pro Ile Trp Cys Leu Pro Asn  
 20 25 30  
 Arg His Arg Leu Leu Lys Leu Ser Phe Leu Leu Phe Ser Pro Asp Ile  
 35 40 45  
 Pro Tyr Leu Ser His Thr His Pro AsnAsn Ile Ser Cys Ser Val Leu  
 50 55 60  
 Ser Leu Arg Gln His Leu Asn Phe Thr Gln Pro Gly Ala Leu Phe Thr  
 65 70 75 80  
 Cys Leu Val Gln Ile Gln Phe Gly Leu Ile LeuGln Pro Cys Ile Ser  
 85 90 95  
 Lys Trp Gly Leu Gly  
 100

<210> 1533  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1533

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Met Gly Met Pro Leu Val Thr Val Thr Ala Ala Thr Phe Pro Thr Leu
 1          5          10          15
Ser Cys Pro Pro Arg Ala Trp Pro Glu Val Glu Ala Pro Glu Ala Pro
          20          25          30
Ala Leu Pro Val Val Pro Glu Leu Pro Glu Val Pro Met Glu Met Pro
          35          40          45
Leu Val Leu Pro Pro Glu Leu Glu Leu Leu Ser Leu Glu Ala Val His
          50          55          60
Arg Tyr Gln Xaa Gly Gly Thr Leu Met Gly Trp Thr Arg Ala Glu Ala
 65          70          75          80
Ser Ala Asn Gly Ser
          85

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<210> 1534

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1534

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Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala
 1          5          10          15
Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val
          20          25          30
Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asp Asp Leu Asp
          35          40          45
Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln
          50          55          60
Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala
 65          70          75          80
Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala
          85          90          95
Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu
          100          105          110

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<210> 1535

<211> 102

<212> PRT

<213> Homo sapiens

<400> 1535

Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala  
1 5 10 15  
Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His  
20 25 30  
Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser  
35 40 45  
Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile  
50 55 60  
Arg Leu Pro Val Ala Leu Ser Phe Ser Ser Gly Ala Arg Leu Ala Phe  
65 70 75 80  
Thr Cys Leu Arg Lys Ile Ser Gly Phe Arg Ala Leu Ile Trp Gly Glu  
85 90 95  
Asp Lys Gly Trp Asp Leu  
100

<210> 1536

<211> 201

<212> PRT

<213> Homo sapiens

<400> 1536

Met Phe Phe Leu Gly Ala Val Leu Cys Leu Ser Phe Ser Trp Leu Phe  
1 5 10 15  
His Thr Val Tyr Cys His Ser Glu Lys Val Ser Arg Thr Phe Ser Lys  
20 25 30  
Leu Asp Tyr Ser Gly Ile Ala Leu Leu Ile Met Gly Ser Phe Val Pro  
35 40 45  
Trp Leu Tyr Tyr Ser Phe Tyr Cys Ser Pro Gln Pro Arg Leu Ile Tyr  
50 55 60  
Leu Ser Ile Val Cys Val Leu Gly Ile Ser Ala Ile Ile Val Ala Gln  
65 70 75 80  
Trp Asp Arg Phe Ala Thr Pro Lys His Arg Gln Thr Arg Ala Gly Val  
85 90 95  
Phe Leu Gly Leu Gly Leu Ser Gly Val Val Pro Thr Met His Phe Thr  
100 105 110  
Ile Ala Glu Gly Phe Val Lys Ala Thr Thr Val Gly Gln Met Gly Trp  
115 120 125  
Phe Phe Leu Met Ala Val Met Tyr Ile Thr Gly Ala Gly Leu Tyr Ala  
130 135 140

Ala Arg Ile Pro Glu Arg Phe Phe Pro Gly Lys Phe Asp Ile Trp Phe  
145 150 155 160

Gln Ser His Gln Ile Phe His Val Leu Val Val Ala Ala Ala Phe Val  
165 170 175

His Phe Tyr Gly Val Ser Asn Leu Gln Glu Phe Arg Tyr Gly Leu Glu  
180 185 190

Gly Gly Cys Thr Asp Asp Thr Leu Leu  
195 200

<210> 1537  
<211> 102  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1537  
Met Gly Arg Arg Ser Gly Leu Leu Gly Leu Arg Pro Gly Arg Ser Arg  
1 5 D 15

Trp Arg Trp Ser Gly Ser Val Trp Val Arg Ser Val Leu Leu Leu Leu  
20 25 30

Gly Gly Leu Arg Ala Ser Ala Thr Ser Thr Pro Val Ser Leu Gly Ser  
35 40 45

Ser Pro Pro Cys Arg His His Val Pro Ser Asp Thr Glu Val Ile Asn  
50 55 60

Lys Val His Leu Lys Ala Asn His Val Val Lys Arg Asp Val Asp Glu  
65 70 75 8

His Leu Arg Ile Lys Thr Val Tyr Asp Lys Xaa Xaa Xaa Ser Cys Ser  
85 90 95

Leu Arg Lys Arg Ile Leu  
100

<210> 1538  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 1538  
 Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu  
           1                  5                  10                  15  
 Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile  
                   20                  25                  30  
 Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro  
                   35                  40                  45  
 Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu  
                   50                  55                  60  
 Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr  
                   65                  70                  75

<210> 1539  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 1539  
 Met Met Leu Gly Leu Arg Gln Lys Leu Thr Thr Ser Leu Thr Ser Ala  
           1                  5                  10                  15  
 Ala Ala Leu Thr Cys Val Leu Leu Leu Ser Met Thr Gly Met Thr Thr  
                   20                  25                  30  
 Ser Ser Ser Arg Ser Val Leu Trp Lys Thr  
                   35                  40

<210> 1540  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 1540  
 Met Cys Trp Ile Cys Val Trp Leu Phe Phe Ser Pro Thr Lys Thr Ser  
           1                  5                  10                  15  
 Cys Phe Pro Trp Leu Ile Arg Pro Gly Pro Arg Ser Phe Thr Asp Ser  
                   20                  25                  30  
 His Gly Thr Pro Pro Trp Gln Cys Leu Glu Pro Ser Arg Phe Tyr Val  
                   35                  40                  45

Pro Trp Glu Ala Ser Val Val Thr Phe Phe Ala Ala Gly Ser Ala Lys  
 50 55 60

Met Ser Cys Gln Ser Trp Leu Ala Pro  
 65 70

<210> 1541  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 1541  
 Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser  
 1 5 10 15  
 Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu  
 20 25 30  
 Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly Asp Ser Cys Cys Gln Glu  
 35 40 45  
 Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu  
 50 55 60  
 Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys  
 65 70 75 80  
 Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly  
 85 90 95  
 Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Arg Val Ser  
 100 105 110  
 Leu Ser Ala Pro Pro Pro Pro Tyr Ser Glu Val Ile Leu Lys Pro Ser  
 115 120 125  
 Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Pro Tyr Ser Phe Arg Pro  
 130 135 140  
 Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala Phe  
 145 150 155

<210> 1542  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 1542  
 Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys Trp  
 1 5 10 15  
 Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe Phe  
 20 25 30  
 \



Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala Arg  
 35 40 45  
 Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg Ile  
 50 55 60  
 Pro Ser Phe Tyr  
 65

<210> 1543  
 <211> 151  
 <212> PRT  
 <213> Homo sapiens

<400> 1543  
 Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp  
 1 5 10 15  
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val  
 20 25 30  
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg  
 35 40 45  
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro  
 50 55 60  
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln  
 65 70 75 80  
 Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu  
 85 90 95  
 Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu  
 100 105 110  
 Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu  
 115 120 125  
 Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp En  
 130 135 140  
 Asp His Ile Tyr His Pro Gln  
 145 150

<210> 1544  
 <211> 506  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (65)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (423)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (425)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1544  
 Met Gly Met Arg Arg His Ser Leu Met Leu Leu Pro Trp Trp Leu Gly  
   1                  5                  10                  15  
  
 Ala Ala Gly Arg Lys Glu Cys His Arg Glu Gln Leu Val Ala Ala Val  
                   20                  25                  30  
  
 Glu Val Thr Glu Gln Glu Thr Lys Val Pro Lys Lys Thr Val Ile Ile  
                   35                  40                  45  
  
 Glu Glu Thr Ile Thr Thr Val Val Lys Ser Pro Arg Gly Gln Arg Arg  
                   50                  55                  60  
  
 Xaa Pro Ser Lys Ser Pro Ser Arg Ser Pro Ser Arg Cys Ser Ala Ser  
   65                  70                  75                  80  
  
 Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu Tyr Leu Pro Gly  
                   85                  90                  95  
  
 Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly Gln Lys Pro Xaa  
                   100                  105                  110  
  
 Val Pro Thr Leu Tyr Val Thr Glu Ala Glu Ala His Ser Pro Ala Leu  
                   115                  120                  125  
  
 Pro Gly Leu Ser Gly Pro Gln Pro Lys Trp Val Glu Val Glu Glu Thr  
                   130                  135                  140  
  
 Ile Glu Val Arg Val Lys Lys Met Gly Pro Gln Gly Val Ser Pro Thr  
   145                  150                  155                  160  
  
 Thr Glu Val Pro Arg Ser Ser Ser Gly His Leu Phe Thr Leu Pro Gly  
                   165                  170                  175  
  
 Ala Thr Pro Gly Gly Asp Pro Asn Ser Asn Asn Ser Asn Asn Lys Leu  
                   180                  185                  190  
  
 Leu Ala Gln Glu Ala Trp Ala Gln Gly Thr Ala Met Val Gly Val Arg  
                   195                  200                  205

Glu Pro Leu Val Phe Arg Val Asp Ala Arg Gly Ser Val Asp Trp Ala  
 210 215 220  
 Ala Ser Gly Met Gly Ser Leu Glu Glu Glu Gly Thr Met Glu Glu Ala  
 225 230 235 240  
 Gly Glu Glu Glu Gly Glu Asp Gly Asp Ala Phe Val Thr Glu Glu Ser  
 245 250 255  
 Gln Asp Thr His Ser Leu Gly Asp Arg Asp Pro Lys Ile Leu Thr His  
 260 265 270  
 Asn Gly Arg Met Leu Thr Leu Ala Asp Leu Glu Asp Tyr Val Pro Gly  
 275 280 285  
 Glu Gly Glu Thr Phe His Cys Gly Gly Pro Gly Pro Gly Ala Pro Asp  
 290 295 300  
 Asp Pro Pro Cys Glu Val Ser Val Ile Gln Arg Glu Ile Gly Glu Pro  
 305 310 315 320  
 Thr Val Gly Ser Leu Cys Cys Ser Ala Trp Gly Met His Trp Val Pro  
 325 330 335  
 Glu Ala Leu Ser Ala Ser Leu Gly Leu Ser Pro Val Gly Arg His His  
 340 345 350  
 Arg Asp Pro Arg Ser Val Ala Leu Arg Ala Pro Pro Ser Ser Cys Gly  
 355 360 365  
 Arg Pro Arg Leu Gly Leu Trp Ala Val Leu Pro Gly Arg Ser Leu Ser  
 370 375 380  
 Ala Pro Ala Ser Gly Val Leu Arg Thr Val Ala Arg Ala Ala Ser Pro  
 385 390 395 400  
 Gln Ser Phe Pro Pro Arg Pro Ser Thr Ser Gly Gln Trp Gly Arg Arg  
 405 410 415  
 Ser Pro Phe Thr Ser Val Xaa Gly Xaa Gly Pro Ser Tyr Leu Thr Gln  
 420 425 430  
 Leu Gln Pro Gly Gly Leu Gly Gly Ala Cys Asn Val Gly Met Thr Gly  
 435 440 445  
 Ser Lys Thr Ser Ala Leu Gly Cys Phe Leu Ser Ala Trp En Glu Pro  
 450 455 460  
 Gln Asp Cys Gly Arg Arg Met Trp Pro Trp Ala Phe Val Leu Phe Pro  
 465 470 475 480  
 His Gly Pro Gly Pro Ser Leu Leu Ala Pro Ala Thr Ala Ala Arg Po  
 485 490 495  
 Asp Met Ala Leu Pro Leu Leu Gln Ser Trp  
 500 505

<210> 1545  
 <211> 334  
 <212> PRT  
 <213> Homo sapiens

<400> 1545  
 Met Phe Gln Cys Gly Leu Leu Gln GlnLeu Cys Thr Ile Leu Met Ala  
   1                  5                  10                  15  
 Thr Gly Val Pro Ala Asp Ile Leu Thr Glu Thr Ile Asn Thr Val Ser  
           20                  25                  30  
 Glu Val Ile Arg Gly Cys Gln Val Asn GlnAsp Tyr Phe Ala Ser Val  
           35                  40                  45  
 Asn Ala Pro Ser Asn Pro Pro Arg Pro Ala Ile Val Val Leu Leu Met  
   50                  55                  60  
 Ser Met Val Asn Glu Arg Gln Pro Phe Val Leu Arg Cys Ala ValLeu  
   65                  70                  75                  80  
 Tyr Cys Phe Gln Cys Phe Leu Tyr Lys Asn Gln Lys Gly Gln Gly Glu  
           85                  90                  95  
 Ile Val Ser Thr Leu Leu Pro Ser Thr Ile Asp Ala Thr GlyAsn Ser  
           100                  105                  110  
 Val Ser Ala Gly Gln Leu Leu Cys Gly Gly Leu Phe Ser Thr Asp Ser  
   115                  120                  125  
 Leu Ser Asn Trp Cys Ala Ala Val Ala Leu Ala His Ala Leu Gln Glu  
   130                  135                  140  
 Asn Ala Thr Gln Lys Glu Gln Leu Leu Arg Val Gln Leu Ala Thr Ser  
   145                  150                  155                  160  
 Ile Gly Asn Pro Pro Val Ser Leu Leu Gln Gln Cys Thr Asn Ile Leu  
           165                  170                  175  
 Ser Gln Gly Ser Lys Ile Gln Thr Arg Val Gly Leu Leu Met Leu Leu  
           180                  185                  190  
 Cys Thr Trp Leu Ser Asn Cys Pro Ile Ala Val Thr His Phe Leu His  
   195                  200                  205  
 Asn Ser Ala Asn Val Pro Phe Leu Thr Gly Gln Ile Ala Glu Asn Leu  
   210                  215                  220  
 Gly Glu Glu Glu Gln Leu Val Gln Gly Leu Cys Ala Leu Leu Leu Gly  
   225                  230                  235                  240  
 Ile Ser Ile Tyr Phe Asn Asp Asn Ser Leu Glu Ser Tyr Met Lys Glu  
           245                  250                  255

Lys Leu Lys Gln Leu Ile Glu Lys Arg Ile Gly Lys Glu Asn Phe Ile  
 260 265 270  
 Glu Lys Leu Gly Phe Ile Ser Lys His Glu Leu Tyr Ser Arg Ala Ser  
 275 280 285  
 Gln Lys Pro Gln Pro Asn Phe Pro Ser Pro Glu Tyr Met Ile Phe Asp  
 290 295 300  
 His Glu Phe Thr Lys Leu Val Lys Glu Leu Glu Gly Val Ile Thr Lys  
 305 310 315 320  
 Ala Ile Tyr Lys Ser Ser Glu Glu Asp Lys Lys Lys Lys Lys  
 325 330

<210> 1546  
 <211> 522  
 <212> PRT  
 <213> Homo sapiens

<400> 1546  
 Met Arg Leu Arg Val Arg Leu Leu Lys Arg Thr Trp Pro Leu Glu Val  
 1 5 10 15  
 Pro Glu Thr Glu Pro Thr Leu Gly His Leu Arg Ser His Leu Arg Gln  
 20 25 30  
 Ser Leu Leu Cys Thr Trp Gly Tyr Ser Ser Asn Thr Arg Phe Thr Ile  
 35 40 45  
 Thr Leu Asn Tyr Lys Asp Pro Leu Thr Gly Asp Glu Glu Thr Leu Ala  
 50 55 60  
 Ser Tyr Gly Ile Val Ser Gly Asp Leu Ile Cys Leu Ile Leu Gln Asp  
 65 70 75 80  
 Asp Ile Pro Ala Pro Asn Ile Pro Ser Ser Thr Asp Ser Glu His Ser  
 85 90 95  
 Ser Leu Gln Asn Asn Glu Gln Pro Ser Leu Ala Thr Ser Ser Asn Gln  
 100 105 110  
 Thr Ser Met Gln Asp Glu Gln Pro Ser Asp Ser Phe Gln Gly Gln Ala  
 115 120 125  
 Ala Gln Ser Gly Val Trp Asn Asp Asp Ser Met Leu Gly Pro Ser Gln  
 130 135 140  
 Asn Phe Glu Ala Glu Ser Ile Gln Asp Asn Ala His Met Ala Glu Gly  
 145 150 155 160  
 Thr Gly Phe Tyr Pro Ser Glu Pro Met Leu Cys Ser Glu Ser Val Glu  
 165 170 175  
 Gly Gln Val Pro His Ser Leu Glu Thr Leu Tyr Gln Ser Ala Asp Cys

180	185	190
Ser Asp Ala Asn Asp Ala Leu Ile Val Leu Ile His Leu Leu Met Leu		
195	200	205
Glu Ser Gly Tyr Ile Pro Gln Gly Thr Glu Ala Lys Ala Leu Ser Met		
210	215	220
Pro Glu Lys Trp Lys Leu Ser Gly Val Tyr Lys Leu Gln Tyr Met His		
225	230	235
Pro Leu Cys Glu Gly Ser Ser Ala Thr Leu Thr Cys Val Pro Leu Gly		
	245	250
Asn Leu Ile Val Val Asn Ala Thr Leu Lys Ile Asn Asn Glu Ile Arg		
	260	265
Ser Val Lys Arg Leu Gln Leu Leu Pro Glu Ser Phe Ile Cys Lys Glu		
	275	280
Lys Leu Gly Glu Asn Val Ala Asn Ile Tyr Lys Asp Leu Gln Lys Leu		
	290	295
Ser Arg Leu Phe Lys Asp Gln Leu Val Tyr Pro Leu Leu Ala Phe Thr		
305	310	315
Arg Gln Ala Leu Asn Leu Pro Asp Val Phe Gly Leu Val Val Leu Pro		
	325	330
Leu Glu Leu Lys Leu Arg Ile Phe Arg Leu Leu Asp Val Arg Ser Val		
	340	345
Leu Ser Leu Ser Ala Val Cys Arg Asp Leu Phe Thr Ala Ser Asn Asp		
	355	360
Pro Leu Leu Trp Arg Phe Leu Tyr Leu Arg Asp Phe Arg Asp Asn Thr		
	370	375
Val Arg Val Gln Asp Thr Asp Trp Lys Glu Leu Tyr Arg Lys Arg His		
385	390	395
Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val Met Leu Leu Pro		
	405	410
Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro Leu His Pro Arg		
	420	425
Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile Gly Gly Glu Tyr		
	435	440
Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro Ile Ser Ser Leu		
	450	455
Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro Pro Leu Arg Pro		
465	470	475
Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn Pro Ile Leu Pro		



<213> Homo sapiens

<400> 1548

Met Val Thr Phe Ile Thr Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr  
1 5 10 15  
Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Po  
20 25 30  
Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Ser Arg  
35 40 45  
Leu His Gly Gln Pro Asn Cys Gly Glu Thr Arg Pro Trp Gly His Gly  
50 55 60  
Ser Leu Gln His His Arg Ser Asn Val Phe Asp Ile Leu Val Gly Leu  
65 70 75 80  
Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser Thr  
85 90 95  
Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu Leu  
100 105 110  
Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp Arg  
115 120 125  
Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile Phe  
130 135 140  
Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val Asn  
145 150 155 160  
Leu Pro Met Cys Arg Glu Asp Asp  
165

<210> 1549

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1549

Met Met Lys Tyr Phe Phe Asp Val Val Val Phe Leu Thr Phe Phe Leu  
1 5 10 15  
Val Phe Ser Leu Ser Ile Phe Leu Ser Asp Glu Glu Phe Pro Val Ser  
20 25 30  
Arg Thr Gln Asn Ile Gly Leu Cys His Phe Asn Pro Ser Phe Ser Glu  
35 40 45



<210> 1550  
 <211> 168  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (83)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1550  
 Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly  
   1                  5                  10                  15  
 Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly  
                   20                  25                  30  
 Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val  
                   35                  40                  45  
 Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln  
                   50                  55                  60  
 Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu  
   65                  70                  75                  80  
 Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His  
                   85                  90                  95  
 Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly  
                   100                  105                  110  
 Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg  
                   115                  120                  125  
 Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu  
   130                  135                  140  
 Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr  
   145                  150                  155                  160  
 Ser Arg Asn Gly Leu Val Gly Cys  
                   165

<210> 1551  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1551  
 Met Asn Leu Ile Phe Arg Leu Pro Cys Ile Leu Leu Thr Cys Ile Tyr  
   1                  5                  10                  15  
 Val Gln Gln Cys Val Cys Lys Tyr Ile Gly Thr Phe Leu Asn Arg Val

20                      25                      30  
 Cys Ala Met Cys Lys Gly Leu Leu Thr Val Lys  
                     35                      40  
  
 <210> 1552  
 <211> 212  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1552  
 Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gly Lys Leu Phe Trp Val  
   1                    5                    10                    15  
 Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu  
                     20                    25                    30  
 Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Ser Glu His Ser Ile  
                     35                    40                    45  
 Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala  
                     50                    55                    60  
 Asn Arg Pro His Val Thr Trp Cys Lys Leu Asn Gly Thr Thr Cys Val  
   65                    70                    75                    80  
 Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Glu Glu Lys Asn Ile Ser  
                     85                    90                    95  
 Phe Phe Ile Leu His Phe Glu Pro Val Leu Pro Asn Asp Asn Gly Ser  
                     100                    105                    110  
 Tyr Arg Cys Ser Ala Asn Phe Gln Ser Asn Leu Ile Glu Ser His Ser  
                     115                    120                    125  
 Thr Thr Leu Tyr Val Thr Gly Glu Phe Ser Thr Pro Arg Pro Ser Asp  
                     130                    135                    140  
 Ile Phe Leu Ile Met Phe Pro Gly Arg Gly Gly Phe Ser Phe Ser Ser  
   145                    150                    155                    160  
 Asp Tyr Val Arg Lys Pro Thr Pro Ile Ala His Leu Lys Ser Ala Thr  
                     165                    170                    175  
 Pro His Arg Leu Leu Cys Ala Ser Val Tyr Ile Cys Val Cys Met Cys  
                     180                    185                    190  
 Ala Phe Glu Val Ser Glu Ile Glu Glu Ser Arg Glu Ile Asp Ser Lys  
                     195                    200                    205  
 Ser Tyr Cys Phe  
                     210

<210> 1553  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 1553  
 Met Gly Pro Leu Trp Gly Ala Pro Leu Arg Ala Trp Ala Ala Gly Ser  
   1                  5                  10                  15  
 Val Gly Cys Pro Cys Cys Leu Ser Cys Ah Ser Pro Ser Ser Ile Ser  
                   20                  25                  30  
 Ser Ala Gly Asp Pro Leu Ala Ser Cys Ser Thr Cys Gly Ser Thr Trp  
                   35                  40                  45  
 Glu Ile Pro Leu Thr Trp Met Thr Met Asp His Leu La Val Arg Tyr  
                   50                  55                  60  
 Tyr Leu Ser Gln Ala Arg Trp Cys Thr Thr Gly  
                   65                  70                  75

<210> 1554  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 1554  
 Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala  
   1                  5                  10                  15  
 Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn  
                   20                  25                  30  
 Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser  
                   35                  40                  45  
 Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr  
                   50                  55                  60  
 Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn  
                   65                  70                  75                  80  
 Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser  
                   85                  90                  95  
 Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe  
                   100                  105                  110  
 Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala  
                   115                  120                  125  
 Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp An Phe  
                   130                  135                  140  
 Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp

145                      150                      155                      160  
 Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val  
                                  165                      170                      175  
 Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu  
                                  180                      185

<210> 1555  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 1555  
 Met Ser Gly Leu Ala Ala Ala HisVal Phe Arg Val Cys Leu Phe  
   1                                 5                                 10                                 15  
 Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser  
                                  20                                 25                                 30  
 Ser Tyr Ile Ala Thr Pro Val Leu Asn SerIle Phe Ser Ser Trp Lys  
                                  35                                 40                                 45  
 Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala  
                                  50                                 55                                 60  
 Phe Pro Ile Ser Arg Arg Arg Arg Asn Phe Ala Leu Phe Ser HisSer  
   65                                 70                                 75                                 80  
 Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr  
                                  85                                 90                                 95  
 Ser Phe Ser Val Pro Cys Arg Val Lys  
                                  100                                 105

<210> 1556  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 1556  
 Met Gly Ser Phe Leu His Pro Gln Trp His Leu Leu Ile Thr Phe Cys  
   1                                 5                                 10                                 15  
 Ala Val Leu Gly Lys Gly Leu His SerAsp Pro Ser Arg Pro Phe Glu  
                                  20                                 25                                 30  
 His Gly Gly Ala Leu Gly Lys Val Pro Arg Gly Arg Ser Thr Leu Leu  
                                  35                                 40                                 45  
 Ser Lys Glu Val Leu Leu Thr Leu Pro Pro Cys LeuHis Val Ser Val  
                                  50                                 55                                 60

Gly Arg Lys  
65

<210> 1557  
<211> 302  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (262)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (279)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (294)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (295)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1557  
Met Leu Leu Leu Trp Lys Asn Phe Met Tyr Arg Arg Arg Gln Pro Val  
1 5 10 15  
Gln Leu Leu Val Glu Leu Leu Trp Pro Leu Phe Leu Phe Phe Ile Leu  
20 25 30  
Val Ala Val Arg His Ser His Pro Pro Leu Glu His His Glu Cys His  
35 40 45  
Phe Pro Asn Lys Pro Leu Pro Ser Ala Gly Thr Val Pro Trp Leu Gln  
50 55 60  
Gly Leu Ile Cys Asn Val Asn Asn Thr Cys Phe Pro Gln Leu Thr Pro  
65 70 75 80  
Gly Glu Glu Pro Gly Arg Leu Ser Asn Phe Asn Asp Ser Leu Val Ser  
85 90 95  
Arg Leu Leu Ala Asp Ala Arg Thr Val Leu Gly Gly Ala Ser Ala His  
100 105 110  
Arg Thr Leu Ala Gly Leu Gly Lys Leu Ile Ala Thr Leu Arg Ala Ala  
115 120 125  
Arg Ser Thr Ala Gln Pro Gln Pro Thr Lys Gln Ser Pro Leu Glu Pro  
130 135 140

Pro Met Leu Asp Val Ala Glu Leu Leu Thr Ser Leu Leu Arg Thr Glu  
 145 150 155 160  
 Ser Leu Gly Leu Ala Leu Gly Gln Ala Gln Glu Pro Leu His Ser Leu  
 165 170 175  
 Leu Glu Ala Ala Glu Asp Leu Ala Gln Glu Leu Leu Ala Leu Arg Ser  
 180 185 190  
 Leu Val Glu Leu Arg Ala Leu Leu Gln Arg Pro Arg Gly Thr Ser Gly  
 195 200 205  
 Pro Leu Glu Leu Leu Ser Glu Ala Leu Cys Ser Val Arg Gly Pro Ser  
 210 215 220  
 Ser Thr Val Gly Pro Ser Leu Asn Trp Tyr Glu Ala Ser Asp Leu Met  
 225 230 235 240  
 Glu Leu Val Gly Gln Glu Pro Glu Ser Ala Cys Arg Gln Gln Leu Ser  
 245 250 255  
 Pro Leu Leu Gly Ala Xaa Trp Ser Leu Asp Ser Thr Arg Cys Pro Leu  
 260 265 270  
 Val Trp Asn Ala Glu Ala Xaa Ser Ser Glu Val Leu Leu Thr Asp His  
 275 280 285  
 Phe Thr Glu Val Met Xaa Xaa Glu Arg Leu Gln Ser Tyr Leu  
 290 295 300

<210> 1558  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 1558  
 Met Leu Leu Trp Trp Gln Cys Leu Cys Cys His Ala Val Leu Glu Pro  
 1 5 10 15  
 Ala Ala Thr Ala Met Pro Glu Asp Ala Ala Pro Ser Ser Leu Pro Val  
 20 25 30  
 Pro Pro Asn Met Thr Ser Ser Arg Phe His Tyr Phe Trp Thr Leu Leu  
 35 40 45  
 Gln Ile Lys Leu Thr Gln Phe Tyr Ser Lys Pro Arg Ser Leu Ser Ala  
 50 55 60  
 Thr Pro Glu Lys Asn Ile Gly Leu Gln Glu Pro Glu Arg Arg Glu Arg  
 65 70 75 80  
 Phe Thr Gly Glu Ser Cys Arg Trp Glu Leu Lys Ser Gln Val Met Ser  
 85 90 95

Leu Pro His Gln Lys Leu Thr Arg Met Tyr Thr Met Pro Leu  
100 105 110

<210> 1559  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 1559  
Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro  
1 5 10 15  
Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser  
20 25 30  
Val Ile Thr Asp Asn Leu Cys Leu  
35 40

<210> 1560  
<211> 211  
<212> PRT  
<213> Homo sapiens

<400> 1560  
Met Tyr Ala Ser Val Leu Leu Thr Gly Leu Leu Ser Leu Gln Arg Asn  
1 5 10 15  
Leu Ala Val Thr Arg Pro Ser Trp Arg Leu Gly Cys Ala Ala Arg Pro  
20 25 30  
Gly Pro Pro Leu Leu Leu Ala Val Trp Leu Ala Ala Leu Leu Leu Ala  
35 40 45  
Val Pro Ala Ala Val Tyr Arg His Leu Trp Arg Asp Arg Val Cys Gln  
50 55 60  
Leu Cys His Pro Ser Pro Val His Ala Ala Ala His Leu Ser Leu Glu  
65 70 75 80  
Thr Leu Thr Ala Phe Val Leu Pro Phe Gly Leu Met Leu Gly Cys Tyr  
85 90 95  
Ser Val Thr Leu Ala Arg Leu Arg Gly Ala Arg Trp Gly Ser Gly Arg  
100 105 110  
His Gly Ala Arg Val Gly Arg Leu Val Ser Ala Ile Val Leu Pro Ser  
115 120 125  
Ala Cys Ser Gly Pro Pro Thr Thr Gln Ser Thr Phe Cys Arg Arg Ser  
130 135 140  
Gln Arg Trp Leu His Arg Lys Gly Pro Trp Arg Ser Trp Ala Glu Pro  
145 150 155 160

Ala Arg Arg Arg Glu Arg Glu Leu Arg Pro Trp Pro Ser Ser Val Leu  
165 170 175

Ala Ser Thr Arg Cys Ser Thr Ser Ser Pro Leu Glu Ile Cys Cys Pro  
180 185 190

Gly Gln Val Pro Val Ser Ser Arg Gly Ser Ser Lys Ala Leu Gly Arg  
195 200 205

Pro Glu Gly  
210

<210> 1561  
<211> 90  
<212> PRT  
<213> Homo sapiens

<400> 1561  
Met Tyr Leu Leu Cys Trp Leu Tyr Ile Met Gly Val Leu Gly Ala Ser  
1 5 10 15

Cys Asn Trp His Val Gly Val Pro Phe Pro Gly Thr His Trp Pro Arg  
20 25 30

Ser Gln Asn His Leu Leu Trp Val Tyr Asn His Leu Asn Glu Leu Pro  
35 40 45

Val Pro Ala Gly Arg Ser Ser Gln Leu Tyr Leu Gly Tyr Thr Glu  
50 55 60

Lys Leu Cys Ile Trp Ile Ser Cys Tyr Leu Ala Ile Arg Ile Thr Glu  
65 70 75 80

Ile Gln Gly Ser Arg Val Ile Leu Met Aa  
85 90

<210> 1562  
<211> 414  
<212> PRT  
<213> Homo sapiens

<400> 1562  
Met Asn Pro Thr Leu Gly Leu Ala Ile Phe Leu Ala Val Leu Leu Thr  
1 5 10 15

Val Lys Gly Leu Leu Lys Pro Ser Phe Ser Pro Arg Asn Tyr Lys Ala  
20 25 30

Leu Ser Glu Val Gln Gly Trp Lys Gln Arg Met Ala Ala Lys Glu Leu  
35 40 45

Ala Arg Gln Asn Met Asp Leu Gly Phe Lys Leu Leu Lys Lys Leu Ala



50					55					60					
Phe	Tyr	Asn	Pro	Gly	Arg	Asn	Ile	Phe	Leu	Ser	Pro	Leu	Ser	Ile	Ser
65					70					75					80
Thr	Ala	Phe	Ser	Met	Leu	Cys	Leu	Gly	Ala	Gln	Asp	Ser	Thr	Leu	Asp
				85					90					95	
Glu	Ile	Lys	Gln	Gly	Phe	Asn	Phe	Arg	Lys	Met	Pro	Glu	Lys	Asp	Leu
			100					105					110		
His	Glu	Gly	Phe	His	Tyr	Ile	Ile	His	Glu	Leu	Thr	Gln	Lys	Thr	Gln
		115					120					125			
Asp	Leu	Lys	Leu	Ser	Ile	Gly	Asn	Thr	Leu	Phe	Ile	Asp	Gln	Arg	Leu
	130					135					140				
Gln	Pro	Gln	Arg	Lys	Phe	Leu	Glu	Asp	Ala	Lys	Asn	Phe	Tyr	Ser	Ala
145					150					155					160
Glu	Thr	Ile	Leu	Thr	Asn	Phe	Gln	Asn	Leu	Glu	Met	Ala	Gln	Lys	Gln
				165					170					175	
Ile	Asn	Asp	Phe	Ile	Ser	Gln	Lys	Thr	His	Gly	Lys	Ile	Asn	Asn	Leu
			180					185					190		
Ile	Glu	Asn	Ile	Asp	Pro	Gly	Thr	Val	Met	Leu	Leu	Ala	Asn	Tyr	Ile
		195					200					205			
Phe	Phe	Arg	Ala	Arg	Trp	Lys	His	Glu	Phe	Asp	Pro	Asn	Val	Thr	Lys
	210					215					220				
Glu	Glu	Asp	Phe	Phe	Leu	Glu	Lys	Asn	Ser	Ser	Val	Lys	Val	Pro	Met
225					230					235					240
Met	Phe	Arg	Ser	Gly	Ile	Tyr	Gln	Val	Gly	Tyr	Asp	Asp	Lys	Leu	Ser
				245					250					255	
Cys	Thr	Ile	Leu	Glu	Ile	Pro	Tyr	Gln	Lys	Asn	Ile	Thr	Ala	Ile	Phe
			260					265					270		
Ile	Leu	Pro	Asp	Glu	Gly	Lys	Leu	Lys	His	Leu	Glu	Lys	Gly	Leu	Gln
		275					280					285			
Val	Asp	Thr	Phe	Ser	Arg	Trp	Lys	Thr	Leu	Leu	Ser	Arg	Arg	Val	Val
	290					295					300				
Asp	Val	Ser	Val	Pro	Arg	Leu	His	Met	Thr	Gly	Thr	Phe	Asp	Leu	Lys
305					310					315					320
Lys	Thr	Leu	Ser	Tyr	Ile	Gly	Val	Ser	Lys	Ile	Phe	Glu	Glu	His	Gly
				325					330					335	
Asp	Leu	Thr	Lys	Ile	Ala	Pro	His	Arg	Ser	Leu	Lys	Val	Gly	Glu	Ala
			340					345					350		
Val	His	Lys	Ala	Glu	Leu	Lys	Met	Asp	Glu	Arg	Gly	Thr	Glu	Gly	Ala

355		360		365
Ala Gly Thr Gly Ala Gln Thr Leu Pro Met Glu Thr Pro Leu Val Val				
370		375		380
Lys Ile Asp Lys Pro Tyr Leu Leu Leu Ile Tyr Ser Glu Lys Ile Pro				
385		390		395
				400
Ser Val Leu Phe Leu Gly Lys Ile Val Asn Pro Ile Gly Lys				
	405		410	

<210> 1563  
 <211> 346  
 <212> PRT  
 <213> Homo sapiens

<400> 1563
Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr Ala
1 5 10 15
Gly Trp Leu Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala Leu Glu
20 25 30
Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser Pro Asn Lys
35 40 45
Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val Cys Thr Glu Ala
50 55 60
Val Gly Ala Val Glu Thr Ile His Gly Gln Phe Ser Leu Ala Val Arg
65 70 75 80
Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn Asp Arg Gly Leu Asp Leu
85 90 95
His Gly Leu Leu Ala Phe Ile Gln Leu Gln Gln Cys Ala Gln Asp Arg
100 105 110
Cys Asn Ala Lys Leu Asn Leu Thr Ser Arg Ala Leu Asp Pro Ala Gly
115 120 125
Asn Glu Ser Ala Tyr Pro Pro Asn Gly Val Glu Cys Tyr Ser Cys Val
130 135 140
Gly Leu Ser Arg Glu Ala Cys Gln Gly Thr Ser Pro Pro Val Val Ser
145 150 155 160
Cys Tyr Asn Ala Ser Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn
165 170 175
Val Thr Leu Thr Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly
180 185 190
Cys Val Gln Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly
195 200 205

Phe Thr Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp  
 210 215 220  
 Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg  
 225 230 235 240  
 Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr  
 245 250 25  
 Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met  
 260 265 270  
 Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala  
 275 280 285  
 Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln  
 290 295 300  
 Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys Gly Gly Pro Gln Gln  
 305 310 315 320  
 Pro His Asn Lys Gly Cys Val Ala Pro Thr Ala Gly Leu Ala Ala Leu  
 325 330 335  
 Leu Leu Ala Val Ala Ala Gly Val Leu Leu  
 340 345

<210> 1564  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens

<400> 1564  
 Met Asp Val Asn Ile Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro  
 1 5 10 15  
 Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp  
 20 25 30  
 Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu  
 35 40 45  
 Val Val Ala Ala Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe  
 50 55 60  
 Asn Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe  
 65 70 75 80  
 Val Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg  
 85 90 95  
 Tyr Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu  
 100 105 110

Ile Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe  
115 120 125

Pro Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu  
130 135 140

Lys Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr  
145 150 155 160

Pro Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile  
165 170 175

Asn Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu  
180 185

<210> 1565  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 1565  
Met Ser Met Lys Cys Tyr Leu Val Val Leu Ile Cys Ile Pro Leu Met  
1 5 10 15

Ala Thr Asp Ala Glu Cys Leu Phe Leu Cys Leu Arg Ala Met Arg Ile  
20 25 30

Ser Leu Glu Lys Gly Leu Ser Arg Ser Phe Ala Tyr Phe  
35 40 45

<210> 1566  
<211> 165  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (127)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1566  
Met Cys Leu Ser Leu Leu Ala Ala Leu Ala Cys Ser Ala Gly Asp Thr  
1 5 10 15

Trp Ala Ser Glu Val Gly Pro Val Leu Ser Lys Ser Ser Pro Arg Leu  
20 25 30

Ile Thr Thr Trp Glu Lys Val Pro Val Gly Thr Asn Gly Gly Val Thr  
35 40 45

Val Val Gly Leu Val Ser Ser Leu Leu Gly Gly Thr Phe Val Gly Ile  
50 55 60

Ala Tyr Phe Leu Thr Gln Leu Ile Phe Val Asn Asp Leu Asp Ile Ser  
 65 70 75 80  
 Ala Pro Gln Trp Pro Ile Ile Ala Phe Gly Gly Leu Ala Gly Leu Leu  
 85 90 95  
 Gly Ser Ile Val Asp Ser Tyr Leu Gly Ala Thr Met Gln Tyr Thr Gly  
 100 105 110  
 Leu Asp Glu Ser Thr Gly Met Val Val Asn Ser Pro Thr Asn Xaa Ala  
 115 120 125  
 Arg His Ile Ala Gly Lys Pro Ile Leu Asp Asn Asn Ala Val Asn Leu  
 130 135 140  
 Phe Ser Ser Val Leu Ile Ala Leu Leu Leu Pro Thr Ala Ala Trp Gly  
 145 150 155 160  
 Phe Trp Pro Arg Gly  
 165

<210> 1567  
 <211> 155  
 <212> PRT  
 <213> Homo sapiens

<400> 1567  
 Met Trp Pro Gln Glu Ala Trp Val Cys Ile Leu Val Leu Leu Gly Thr  
 1 5 10 15  
 Arg Val Gly Leu Cys Val Gly Asp Ser Leu Ala Pro Gln Ala Ser Leu  
 20 25 30  
 Ser Tyr Cys Tyr Ile Leu Lys Val Pro Leu Arg Pro Lys Pro Leu Trp  
 35 40 45  
 Gln Leu Ser Asn Glu Ser Ile Cys Ser Glu Tyr Arg Val Glu Gly Gly  
 50 55 60  
 Gln Gly His Gln Glu Leu Arg Met Phe Leu Arg Leu Met Arg Pro Arg  
 65 70 75 80  
 Tyr Trp Val His Gly Gly Pro Arg Ser Leu Cys Asp Ser Cys Ser Leu  
 85 90 95  
 Leu Pro Pro Cys Leu Asp Pro Ala Ser Ala Gln Lys Ala Asn Ser Leu  
 100 105 110  
 Asp Ser Lys Gly Leu Pro Arg Pro Ile Ser Met Ser Cys Ser Cys Gln  
 115 120 125  
 Leu Pro Val Pro Ser Leu Asp Leu Ser Ser Cys Leu Ala Pro Ser Leu  
 130 135 140  
 Pro Thr Pro His Ile Phe Thr Asn Lys Arg Lys

145

150

155

&lt;210&gt; 1568

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1568

Met Thr Trp Thr Lys Cys Pro Leu Pro Leu Gly Pro Ala Phe Phe Thr  
 1 5 10 15

Gln Cys Cys Leu Ile Gly Leu Leu Val ProLeu Leu Gly Trp Gly Asn  
 20 25 30

Gln Asn Thr Gln Trp Tyr Pro Thr Ser Lys Met Pro Asp Leu Lys Asp  
 35 40 45

Ser Lys Thr Thr Asp Leu Cys Gln His Val Lys His MetVal  
 50 55 60

&lt;210&gt; 1569

&lt;211&gt; 615

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1569

Met Ile Leu Phe Leu Leu Ala Phe Leu Leu Phe Cys Gly Leu Leu Phe  
 1 5 10 15

Tyr Ile Asn Leu Ala Asp His Trp Lys Ala Leu Ala Phe Arg Leu Glu  
 20 25 30

Glu Glu Gln Lys Met Arg Pro Glu Ile Ala Gly Leu Lys Pro Ala Asn  
 35 40 45

Pro Pro Val Leu Pro Ala Pro Gln Lys Ala Asp Thr Asp Pro Glu Asn  
 50 55 60

Leu Pro Glu Ile Ser Ser Gln Lys Thr Gln Arg His Ile Gln Arg Gly  
 65 70 75 80

Pro Pro His Leu Gln Ile Arg Pro Pro Ser Gln Asp Leu Lys Asp Gly  
 85 90 95

Thr Gln Glu Glu Ala Thr Lys Arg Gln Glu Ala Pro Val Asp Pro Arg  
 100 105 110

Pro Glu Gly Asp Pro Gln Arg Thr Val Ile Ser Trp Arg Gly Ala Val  
 115 120 125

Ile Glu Pro Glu Gln Gly Thr Glu Leu Pro Ser Arg Arg Ala Glu Val  
 130 135 140

Pro Thr Lys Pro Pro Leu Pro Pro Ala Arg Thr Gln Gly Thr Pro Val  
 145 150 155 160  
 His Leu Asn Tyr Arg Gln Lys Gly Val Ile Asp Val Phe Leu His Ala  
 165 170 175  
 Trp Lys Gly Tyr Arg Lys Phe Ala Trp Gly His Asp Glu Leu Lys Pro  
 180 185 190  
 Val Ser Arg Ser Phe Ser Glu Trp Phe Gly Leu Gly Leu Thr Leu Ile  
 195 200 205  
 Asp Ala Leu Asp Thr Met Trp Ile Leu Gly Leu Arg Lys Glu Phe Glu  
 210 215 220  
 Glu Ala Arg Lys Trp Val Ser Lys Lys Leu His Phe Glu Lys Asp Val  
 225 230 235 240  
 Asp Val Asn Leu Phe Glu Ser Thr Ile Arg Ile Leu Gly Gly Leu Leu  
 245 250 255  
 Ser Ala Tyr His Leu Ser Gly Asp Ser Leu Phe Leu Arg Lys Ala Glu  
 260 265 270  
 Asp Phe Gly Asn Arg Leu Met Pro Ala Phe Arg Thr Pro Ser Lys Id  
 275 280 285  
 Pro Tyr Ser Asp Val Asn Ile Gly Thr Gly Val Ala His Pro Pro Arg  
 290 295 300  
 Trp Thr Ser Asp Ser Thr Val Ala Glu Val Thr Ser Ile Gln Leu Glu  
 305 310 315 320  
 Phe Arg Glu Leu Ser Arg Leu Thr Gly Asp Lys Lys Phe Gln Glu Ala  
 325 330 335  
 Val Glu Lys Val Thr Gln His Ile His Gly Leu Ser Gly Lys Lys Asp  
 340 345 350  
 Gly Leu Val Pro Met Phe Ile Asn Thr His Ser Gly Leu Phe Thr His  
 355 360 365  
 Leu Gly Val Phe Thr Leu Gly Ala Arg Ala Asp Ser Tyr Tyr Glu Tyr  
 370 375 380  
 Leu Leu Lys Gln Trp Ile Gln Gly Gly Lys Gln Glu Thr Gln Leu Leu  
 385 390 395 400  
 Glu Asp Tyr Val Glu Ala Ile Glu Gly Val Arg Thr His Leu Leu Arg  
 405 410 415  
 His Ser Glu Pro Ser Lys Leu Thr Phe Val Gly Glu Leu Ala His Gly  
 420 425 430  
 Arg Phe Ser Ala Lys Met Asp His Leu Val Cys Phe Leu Pro Gly Thr  
 435 440 445

Leu Ala Leu Gly Val Tyr His Gly Leu Pro Ala Ser His Met Glu Leu  
 450 455 460  
 Ala Gln Glu Leu Met Glu Thr Cys Tyr Gln Met Asn Arg Gln Met Glu  
 465 470 475 480  
 Thr Gly Leu Ser Pro Glu Ile Val His Phe Asn Leu Tyr Pro Gln Pro  
 485 490 495  
 Gly Arg Arg Asp Val Glu Val Lys Pro Ala Asp Arg His Asn Leu Leu  
 500 505 510  
 Arg Pro Glu Thr Val Glu Ser Leu Phe Tyr Leu Tyr Arg Val Thr Gly  
 515 520 525  
 Asp Arg Lys Tyr Gln Asp Trp Gly Trp Glu Ile Leu Gln Ser Phe Ser  
 530 535 540  
 Arg Phe Thr Arg Val Pro Ser Gly Gly Tyr Ser Ser Ile Asn Asn Val  
 545 550 555 560  
 Gln Asp Pro Gln Lys Pro Glu Pro Arg Asp Lys Met Glu Ser Phe Phe  
 565 570 575  
 Leu Gly Glu Thr Leu Lys Tyr Leu Phe Leu Leu Phe Ser Asp Asp Pro  
 580 585 590  
 Asn Leu Leu Ser Leu Asp Ala Tyr Val Phe Asn Thr Glu Ala His Pro  
 595 600 605  
 Leu Pro Ile Trp Thr Pro Ala  
 610 615

<210> 1570  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 1570  
 Met Thr Lys Ala Arg Leu Phe Arg Leu Trp Leu Val Leu Gly Ser Val  
 1 5 10 15  
 Phe Met Ile Leu Leu Ile Ile Val Tyr Trp Asp Ser Ala Ala Pro Arg  
 20 25 30  
 Thr Ser Thr Cys Thr Arg Pro Ser Leu Gly Arg Thr Arg Gly Arg Arg  
 35 40 45  
 Cys Pro Arg Pro Gly Arg Thr Gly Gln Gly Ala His Gly Arg Leu Arg  
 50 55 60  
 Cys Arg Arg Val Ser Gly Gln Phe Leu Met Leu Ala  
 65 70 75



<210> 1571  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 1571  
 Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val  
   1                  5                  10                  15  
 Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val  
           20                  25                  30  
 Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys  
           35                  40                  45  
 Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly Thr Cys Ser Ala  
           50                  55                  60  
 Lys Cys Thr Thr Arg Cys Trp Leu  
   65                  70

<210> 1572  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1572  
 Met Val Leu Arg Gly Trp Gly Leu Ala Trp Ser Xaa Ser Pro Val Val  
   1                  5                  10                  15  
 Cys Gly Tyr Ser Gly Asp Met Lys Gly Val Cys Trp Gly Arg Ser Asp  
           20                  25                  30  
 His Ser Leu Leu Pro Ser Glu Ile Leu Leu Pro Pro Ala Pro Cys Pro  
           35                  40                  45  
 Xaa Ser Xaa Val Leu His Asn Pro Pro Pro Thr Pro His Leu Pro Ser  
   50                  55                  60

Pro Val Leu Val Arg Ile Gln Glu Ala Pro Thr Trp Ala Gln Arg Ser  
 65 70 75 80

Ser Leu Gly Ala Ser Pro Leu His Lys Gly Asp  
 85 90

<210> 1573  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 1573  
 Leu Arg Glu Leu  
 1

<210> 1574  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 1574  
 Gly Cys Ser Leu Tyr Asn Ser Phe Asn Asn Leu Leu Cys Leu  
 1 5 10

<210> 1575  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 1575  
 Trp Ala Leu Pro Met Ser  
 1 5

<210> 1576  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1576  
 Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met Leu Leu  
 1 5 10 15

His Leu Thr Ala Ala Phe Leu Gln Arg Ala His Xaa Ile Leu Thr Thr  
 20 25 30

Arg Met Ser Leu Gly Phe Gln Ser Pro His Leu Thr Met  
 35 40 45

<210> 1577  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 1577  
 Pro Gly Pro His Cys Phe Ile Gly Leu Ala Met Arg Leu Tyr Tyr Gly  
 1 5 10 15

Ser Arg

<210> 1578  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 1578  
 Met Val His Ile Asn Arg Ala Leu Lys Leu Ile Ile Arg Leu Phe Leu  
 1 5 10 15

Val Glu Asp Leu Val Asp Ser Leu Lys Leu Ala Val Phe Met Trp Leu  
 20 25 30

Met Thr Tyr Val Gly Ala Val Phe Asn Gly Ile Thr Leu Leu Ile Leu  
 35 40 45

Ala Glu Leu Leu Ile Phe Ser Val Pro Ile Val Tyr Glu Lys Tyr Lys  
 50 55 60

Thr Gln Ile Asp His Tyr Val Gly Ile Ala Arg Asp Gln Thr Lys Ser  
 65 70 75 80

Ile Val Glu Lys Ile Gln Ala Lys Leu Pro Gly Ile Ala Lys Lys Lys  
 85 90 95

Ala Glu

<210> 1579  
 <211> 392  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (251)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1579

Met	Ala	Pro	Trp	Pro	Pro	Lys	Gly	Leu	Val	Pro	Ala	Val	Leu	Trp	Gly	
1				5					10					15		
Leu	Ser	Leu	Phe	Leu	Asn	Leu	Pro	Gly	Pro	Ile	Trp	Leu	Gln	Pro	Ser	
			20					25					30			
Pro	Pro	Pro	Gln	Ser	Ser	Pro	Pro	Pro	Gln	Pro	His	Pro	Cys	His	Thr	
		35					40					45				
Cys	Arg	Gly	Leu	Val	Asp	Ser	Phe	Asn	Lys	Gly	Leu	Glu	Arg	Thr	Ile	
	50					55					60					
Arg	Asp	Asn	Phe	Gly	Gly	Gly	Asn	Thr	Ala	Trp	Glu	Glu	Glu	Asn	Leu	
65					70					75					80	
Ser	Lys	Tyr	Lys	Asp	Ser	Glu	Thr	Arg	Leu	Val	Glu	Val	Leu	Glu	Gly	
				85					90						95	
Val	Cys	Ser	Lys	Ser	Asp	Phe	Glu	Cys	His	Arg	Leu	Leu	Glu	Leu	Ser	
			100					105					110			
Glu	Glu	Leu	Val	Glu	Ser	Trp	Trp	Phe	His	Lys	Gln	Gln	Glu	Ala	Pro	
		115					120					125				
Asp	Leu	Phe	Gln	Trp	Leu	Cys	Ser	Asp	Ser	Leu	Lys	Leu	Cys	Cys	Pro	
	130					135					140					
Ala	Gly	Thr	Phe	Gly	Pro	Ser	Cys	Leu	Pro	Cys	Pro	Gly	Gly	Thr	Glu	
145					150					155					160	
Arg	Pro	Cys	Gly	Gly	Tyr	Gly	Gln	Cys	Glu	Gly	Glu	Gly	Thr	Arg	Gly	
				165					170					175		
Gly	Ser	Gly	His	Cys	Asp	Cys	Gln	Ala	Gly	Tyr	Gly	Gly	Glu	Ala	Cys	
			180					185					190			
Gly	Gln	Cys	Gly	Leu	Gly	Tyr	Phe	Glu	Ala	Glu	Arg	Asn	Ala	Ser	His	
		195					200					205				
Leu	Val	Cys	Ser	Ala	Cys	Phe	Gly	Pro	Cys	Ala	Arg	Cys	Ser	Gly	Pro	
	210					215					220					
Glu	Glu	Ser	Asn	Cys	Leu	Gln	Cys	Lys	Lys	Gly	Trp	Ala	Leu	His	His	
225					230					235					240	
Leu	Lys	Cys	Val	Asp	Cys	Ala	Lys	Ala	Cys	Xaa	Gly	Cys	Met	Gly	Ala	
				245					250					255		
Gly	Pro	Gly	Arg	Cys	Lys	Lys	Cys	Ser	Pro	Gly	Tyr	Gln	Gln	Val	Gly	
			260					265					270			
Ser	Lys	Cys	Leu	Asp	Val	Asp	Glu	Cys	Glu	Thr	Glu	Val	Cys	Pro	Gly	
		275					280					285				

Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys  
 290 295 300  
 Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile  
 305 310 315 320  
 Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val  
 325 330 335  
 Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr  
 340 345 350  
 Leu Ala Ala Lys Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala  
 355 360 365  
 Val Ala Ala Met Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val  
 370 375 380  
 Leu Glu Gly Phe Ile Lys Gly Arg  
 385 390

<210> 1580  
 <211> 434  
 <212> PRT  
 <213> Homo sapiens

<400> 1580  
 Met Ala Pro Glu Gly Leu Val Pro Ala Val Leu Trp Gly Leu Ser Leu  
 1 5 10 15  
 Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser Pro Pro Pro  
 20 25 30  
 Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr Cys Arg Gly  
 35 40 45  
 Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile Arg Asp Asn  
 50 55 60  
 Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu Ser Lys Tyr  
 65 70 75 80  
 Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly Val Cys Ser  
 85 90 95  
 Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser Glu Glu Leu  
 100 105 110  
 Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro Asp Leu Phe  
 115 120 125  
 Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro Ala Gly Thr  
 130 135 140  
 Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu Arg Pro Cys



<210> 1581  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 1581  
 Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala  
   1                  5                  10                  15  
 Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Gly Pro Arg  
                   20                  25                  30  
 Ala Gly Phe Arg Leu Phe Ile Pro Glu Glu Leu Ser Arg Tyr Arg Gly  
                   35                  40                  45  
 Gly Pro Gly Asp Pro Gly Leu Tyr Leu Ala Leu Leu Gly Arg Val Tyr  
           50                  55                  60  
 Asp Val Ser Ser Gly Arg Ser Thr Thr Ser Leu Gly Pro Thr Ile Ala  
   65                  70                  75                  80  
 Ala Ser Gln Ala Glu Thr His Pro Glu Leu Ser  
                   85                  90

<210> 1582  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 1582  
 Met Val Leu Leu Cys Leu Leu Leu Val Pro Leu Leu Leu Ser Leu Phe  
   1                  5                  10                  15  
 Val Leu Gly Leu Phe Leu Trp Phe Leu Lys Arg Glu Arg Gln Glu Glu  
                   20                  25                  30  
 Tyr Ile Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu Thr Pro Asn  
                   35                  40                  45  
 Ile Cys Pro His Ser Gly Glu Asn Thr Glu Tyr Asp Thr Ile Pro His  
   50                  55                  60  
 Thr Asn Arg Thr Ile Leu Lys Glu Asp Pro Ala Asn Thr Val Tyr Ser  
   65                  70                  75                  80  
 Thr Val Glu Ile Pro Lys Lys Met Glu Asn Pro His Ser Leu Leu Thr  
                   85                  90                  95  
 Met Pro Asp Thr Pro Arg Leu Phe Ala Tyr Glu Asn Val Ile  
           100                  105                  110

<210> 1583

<211> 189  
 <212> PRT  
 <213> Homo sapiens

<400> 1583

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Met Gly Pro Val Arg Leu Gly Ile Leu Leu Phe Leu Phe Leu Ala Val
 1           5           10           15

His Glu Ala Trp Ala Gly Met Leu Lys Glu Glu Asp Asp Asp Thr Glu
      20           25           30

Arg Leu Pro Ser Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu
      35           40           45

Gln Ala Glu Leu Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu
      50           55           60

Gly Gln Val Leu Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser
 65           70           75           80

Val Ser Glu Thr Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg
      85           90           95

Ile Leu Asp Tyr Ser Val His Ala Glu Arg Lys Gly Ser Leu Arg Tyr
      100          105          110

Ala Lys Gly Gln Ser Gln Thr Met Ala Thr Leu Lys Gly Leu Val Gln
      115          120          125

Lys Gly Val Lys Val Asp Leu Gly Ile Pro Leu Glu Leu Trp Asp Glu
      130          135          140

Pro Ser Val Glu Val Thr Tyr Leu Lys Lys Gln Cys Glu Thr Met Leu
      145          150          155          160

Glu Glu Glu Glu Glu Glu Glu Glu Glu Gly Gly Asp Lys Met Thr
      165          170          175

Lys Thr Gly Ser His Pro Lys Leu Asp Arg Glu Asp Leu
      180          185

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<210> 1584  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring amino acids



<220>  
 <221> SITE  
 <222> (177)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (181)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (185)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (188)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (189)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (193)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1584  
 Met Ser Leu Leu Val Asp Gly Asp Met Asn Leu Ser Ile Ile Met Thr  
     1                    5                    10                    15  
 Ile Ser Ser Thr Leu Leu Ala Leu Val Leu Met Pro Leu Cys Leu Trp  
                     20                    25                    30  
 Ile Tyr Ser Trp Ala Trp Ile Asn Thr Pro Ile Val Gln Leu Leu Pro  
                     35                    40                    45  
 Leu Gly Thr Val Thr Leu Thr Leu Cys Ser Thr Leu Ile Pro Ile Gly  
                     50                    55                    60  
 Leu Gly Val Phe Ile Arg Tyr Lys Tyr Ser Arg Val Ala Asp Tyr Ile  
                     65                    70                    75                    80  
 Val Lys Val Ser Leu Trp Ser Leu Leu Val Thr Leu Val Val Leu Phe  
                     85                    90                    95  
 Ile Met Thr Gly Thr Met Leu Gly Pro Glu Leu Leu Ala Ser Ile Pro  
                     100                    105                    110  
 Ala Ala Val Tyr Val Ile Ala Ile Phe Met Pro Leu Ala Gly Tyr Ala  
                     115                    120                    125  
 Ser Gly Tyr Gly Leu Ala Thr Leu Phe His Leu Pro Pro Asn Cys Lys

130                      135                      140  
 Arg Thr Val Cys Leu Glu Thr Gly Ser Gln Asn Val Gln Leu Cys Thr  
 145                      150                      155                      160  
 Ala Ile Leu Lys Leu Ala Phe His Arg Ile Xaa Arg Lys His Xaa His  
 165                      170                      175  
 Xaa Ser Phe Ala Xaa Cys Thr Phe Xaa Val Cys Xaa Xaa Gly Asp Phe  
 180                      185                      190  
 Xaa Phe Asn Leu  
 195

<210> 1585  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1585  
 Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys  
 1                      5                      10                      15  
 Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val  
 20                      25                      30  
 Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser  
 35                      40                      45  
 Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe  
 50                      55                      60  
 Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser  
 65                      70                      75                      80

<210> 1586  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 1586  
 Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile  
 1                      5                      10                      15  
 Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser  
 20                      25                      30  
 Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp  
 35                      40                      45

Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro  
 50 55 60  
 Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Ty  
 65 70 75 80  
 Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys  
 85 90 95  
 Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Po Ser  
 100 105 110  
 Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly  
 115 120 125  
 Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys  
 130 135 140  
 Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile  
 145 150 155 160  
 Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His  
 165 170 175  
 Cys Arg

<210> 1587

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1587

Ala Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg Gly Cys Arg Leu Arg  
 1 5 10 15  
 Thr Pro Ser Ser Asp Val Ser Pro Ser Arg Ala Pro Pro Pro Ser Ala  
 20 25 30  
 Ala Pro Leu Pro Thr Gly Arg Ala Xaa Met Ser Pro Ser Gly Arg Leu  
 35 40 45  
 Cys Leu Leu Thr Ile Val Gly Leu Ile Leu Pro Thr Arg Gly Gln Thr  
 50 55 60  
 Leu Lys Asp Thr Thr Ser Ser Ser Ser Ala Asp Ser Thr Ile Met Asp  
 65 70 75 80  
 Ile Gln Val Pro Thr Arg Ala Pro Asp Ala Val Tyr Thr Glu Leu Gln  
 85 90 95

Pro Thr Ser Pro Thr Pro Thr Trp Pro Ala AspGlu Thr Pro Gln Pro  
 100 105 110  
 Gln Thr Gln Thr Gln Gln Leu Glu Gly Thr Asp Gly Pro Leu Val Thr  
 115 120 125  
 Asp Pro Glu Thr His Lys Ser Thr Lys Ala Ala His Pro ThrAsp Asp  
 130 135 140  
 Thr Thr Thr Leu Ser Glu Arg Pro Ser Pro Ser Thr Asp Val Gln Thr  
 145 150 155 160  
 Asp Pro Gln Thr Leu Lys Pro Ser Gly Phe His Glu Asp Asp Pro Phe  
 165 170 175  
 Phe Tyr Asp Glu His Thr Leu Arg Lys Arg Gly Leu Leu Val Ala Ala  
 180 185 190  
 Val Leu Phe Ile Thr Gly Ile Ile Ile Leu Thr Ser Gly Lys Cys Arg  
 195 200 205  
 Gln Leu Ser Arg Leu Cys Arg Asn His Cys Arg  
 210 215

<210> 1588  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<400> 1588  
 Met Ala Gly Pro Trp Thr Phe Thr Leu Leu Cys Gly Leu LeuAla Ala  
 1 5 10 15  
 Thr Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile Leu Gly  
 20 25 30  
 Pro Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp HisAsn  
 35 40 45  
 Ala Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu Ser Ala Met Arg Glu  
 50 55 60  
 Lys Pro Ala Gly Ala Ser Leu Cys Trp Ala Ala Trp  
 65 70 75

<210> 1589  
 <211> 130  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (64)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1589  
 Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Leu Gly  
   1                  5                  10                  15  
 Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys Pro Ile  
                   20                  25                  30  
 Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys Gly Gln Trp  
           35                  40                  45  
 Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His Tyr Leu Arg Xaa  
   50                  55                  60  
 Xaa Thr Pro Leu Arg Glu Arg Arg Arg Arg Ala Lys Arg Lys Arg Leu  
   65                  70                  75                  80  
 Ser Pro Ser Leu Gly Pro Gly Val Glu Pro Glu Ala Pro Gly Thr Asp  
                   85                  90                  95  
 Thr Cys Pro Lys His Ser Pro Gly Glu Ser His Ala Arg Thr Arg Pro  
                   100                  105                  110  
 Arg Val Pro Thr Ala Pro Ser Ser Pro Cys Pro Ser Thr Ser Pro Pro  
   115                  120                  125  
 Thr Ser  
   130

<210> 1590  
 <211> 173  
 <212> PRT  
 <213> Homo sapiens

<400> 1590  
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly  
   1                  5                  10                  15  
 Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly  
           20                  25                  30  
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro  
   35                  40                  45  
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val  
   50                  55                  60  
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys

65		70		75		80									
Arg	Pro	Glu	Glu	Pro	Gly	His	Cys	Val	Ala	Gln	Ser	Glu	Val	Val	As
				85					90					95	
Glu	Gly	Cys	Ser	Ile	Tyr	Asn	Arg	Ser	Glu	Ala	Cys	Pro	Ala	Ala	His
			100					105					110		
His	His	Pro	Thr	Tyr	Glu	Pro	Lys	Thr	Val	Thr	Thr	Gly	Ser	Pro	Pro
		115					120					125			
Val	Pro	Glu	Ala	His	Ser	Pro	Gly	Phe	Asp	Gly	Ala	Ser	Phe	Ile	Gly
	130					135					140				
Gly	Val	Val	Leu	Val	Leu	Ser	Leu	Gln	Ala	Val	Ala	Phe	Phe	Val	Leu
145				150						155					160
His	Phe	Leu	Lys	Ala	Lys	Asp	Ser	Thr	Tyr	Gln	Thr	Leu			
			165						170						

<210> 1591

<211> 210

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (187)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1591

Met	Glu	Ala	Pro	Gly	Pro	Arg	Ala	Leu	Arg	Thr	Ala	Leu	Cys	Gly	Gly
1				5					10					15	

Cys	Cys	Cys	Leu	Leu	Leu	Cys	Ala	Gln	Leu	Ala	Val	Ala	Gly	Lys	Gly
			20					25					30		

Ala	Arg	Gly	Phe	Gly	Arg	Gly	Ala	Leu	Ile	Arg	Leu	Asn	Ile	Trp	Pro
		35					40					45			

Ala	Val	Gln	Gly	Ala	Cys	Lys	Gln	Leu	Glu	Val	Cys	Glu	His	Cys	Val
	50					55					60				

Glu	Gly	Asp	Arg	Ala	Arg	Asn	Leu	Ser	Ser	Cys	Met	Trp	Glu	Gln	Cys
65					70					75				80	

Arg	Pro	Glu	Glu	Pro	Gly	His	Cys	Val	Ala	Gln	Ser	Glu	Val	Val	Lys
				85					90					95	

Glu	Gly	Cys	Ser	Ile	Tyr	Asn	Arg	Ser	Glu	Ala	Cys	Pro	Ala	Ala	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

100	105	110
His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro		
115	120	125
Val Pro Glu Ala His Ser Pro Gly Phe Asp Xaa Ala Ser Phe Ile Gly		
130	135	140
Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu		
145	150	155
Thr Ser Ser Arg Pro Arg Thr Ala Pro Thr Arg Arg Cys Glu Tyr Leu		
	165	170
Ala Ser Ser Lys Tyr Leu Ser Pro Ser Ser Xaa Leu Val Pro Ala His		
	180	185
Val Pro Phe Ser Thr Gln Gly Ala Val Phe Ser Thr Gly Lys Pro Ser		
	195	200
		205
Gly Arg		
210		

<210> 1592  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1592  
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
 1 5 10 15  
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
 20 25 30  
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
 35 40 45  
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
 50 55 60  
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
 65 70 75 80  
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Arg Ser Pro Trp His  
 85 90 95  
 Pro Gly Asn

<210> 1593  
 <211> 245  
 <212> PRT

<213> Homo sapiens

<400> 1593

```
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1          5          10          15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
          20          25          30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
          35          40          45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
          50          55          60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65          70          75          80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
          85          90          95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
          100          105          110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
          115          120          125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
          130          135          140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
          145          150          155          160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
          165          170          175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
          180          185          190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
          195          200          205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
          210          215          220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
          225          230          235          240

Ile Phe Pro Ser Ala
          245
```

<210> 1594

<211> 250

<212> PRT

<213> Homo sapiens



<400> 1594

Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys  
1 5 10 15  
Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys  
20 25 30  
Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp  
35 40 45  
Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys  
50 55 60  
Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro  
65 70 75 80  
Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp  
85 90 95  
Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr  
100 105 110  
Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe  
115 120 125  
Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp  
130 135 140  
Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu  
145 150 155 160  
Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala  
165 170 175  
Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val  
180 185 190  
Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys  
195 200 205  
Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg  
210 215 220  
Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser  
225 230 235 240  
Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe  
245 250

<210> 1595

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1595

Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys  
1 5 10 15

Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys  
20 25 30

Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp  
35 40 45

Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys  
50 55 60

Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro  
65 70 75 80

Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp  
85 90 95

Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr  
100 105 110

Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe  
115 120 125

Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp  
130 135 140

Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu  
145 150 155 160

Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala  
165 170 175

Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val  
180 185 190

Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys  
195 200 205

Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg  
210 215 220

Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser  
225 230 235 240

Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe  
245 250

<210> 1596

<211> 281

<212> PRT

<213> Homo sapiens

<400> 1596

Met Ser Ile Leu Thr Met Ile Ser Ser Trp Pro Phe Ser Arg Val Val  
1 5 10 15  
Arg Phe Trp Phe Leu His Gln Met Val Leu Asp Leu Cys Leu Gly Gln  
20 25 30  
Gly Val Pro Gln Gln Asn Leu Gly Lys Pro Lys Gly Lys Lys Lys Leu  
35 40 45  
Ser Ser Val Arg Gln Lys Phe Asp His Arg Phe Gln Pro Gln Asn Pro  
50 55 60  
Leu Ser Gly Ala Gln Gln Phe Val Ala Lys Asp Pro Gln Asp Asp Asp  
65 70 75 80  
Asp Leu Lys Leu Cys Ser His Thr Met Met Leu Pro Thr Arg Gly Gln  
85 90 95  
Leu Glu Gly Arg Met Ile Val Thr Ala Tyr Glu His Gly Leu Asp Asn  
100 105 110  
Val Thr Glu Glu Ala Val Ser Ala Val Val Tyr Ala Val Glu Asn His  
115 120 125  
Leu Lys Asp Ile Leu Thr Ser Val Val Ser Arg Arg Lys Ala Tyr Arg  
130 135 140  
Leu Arg Asp Gly His Phe Lys Tyr Ala Phe Gly Ser Asn Val Thr Pro  
145 150 155 160  
Gln Pro Tyr Leu Lys Asn Ser Val Val Aa Tyr Asn Asn Leu Ile Glu  
165 170 175  
Ser Pro Pro Ala Phe Thr Ala Pro Cys Ala Gly Gln Asn Pro Ala Ser  
180 185 190  
His Pro Pro Pro Asp Asp Ala Glu Gln Gln Aa Ala Leu Leu Leu Ala  
195 200 205  
Cys Ser Gly Asp Thr Leu Pro Ala Ser Leu Pro Pro Val Asn Met Tyr  
210 215 220  
Asp Leu Phe Glu Ala Leu Gln Val His Arg Glu Val Ile Pro Thr His  
225 230 235 240  
Thr Val Tyr Ala Leu Asn Ile Glu Arg Ile Ile Thr Lys Leu Trp His  
245 250 255  
Pro Asn His Glu Glu Leu Gln Gln Asp Lys Val His Arg Gln Ag Leu  
260 265 270  
Ala Ala Lys Glu Gly Leu Leu Leu Cys  
275 280

<210> 1597

<211> 89  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1597  
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu  
   1                  5                  10                  15  
 Leu Leu Leu Leu Leu Leu Val Xaa Leu Leu Gln Ala Gly Leu Asn Thr  
                   20                  25                  30  
 Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln  
           35                  40                  45  
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly  
   50                  55                  60  
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Xaa Lys Glu Lys Ala Trp  
   65                  70                  75                  80  
 Arg Ala Val Val Val Gln Met Ala Gln  
                   85

<210> 1598  
 <211> 335  
 <212> PRT  
 <213> Homo sapiens

<400> 1598  
 Met Lys Lys Glu Leu Pro Val Asp Ser Cys Leu Pro Arg Ser Leu Glu  
   1                  5                  10                  15  
 Leu His Pro Gln Lys Met Asp Pro Lys Arg Gln His Ile Gln Leu Leu  
                   20                  25                  30  
 Ser Ser Leu Thr Glu Cys Leu Thr Val Asp Pro Leu Ser Ala Ser Val  
   35                  40                  45  
 Trp Arg Gln Leu Tyr Pro Lys His Leu Ser Gln Ser Ser Leu Leu Leu  
   50                  55                  60  
 Glu His Leu Leu Ser Ser Trp Glu Gln Ile Pro Lys Lys Val Gln Lys  
   65                  70                  75                  80  
 Ser Leu Gln Glu Thr Ile Gln Ser Leu Lys Leu Thr Asn Gln Glu Leu



Gly Gly Gly Leu Gly Gly Ile Ile Leu Val Leu  
 20 25

<210> 1600  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 1600  
 Leu Ala Ala Thr Arg Lys Phe Phe Leu Ser Ser His Ser Ser Cys  
 1 5 10 15  
 Lys Lys Gly Ala Met Ser Gln Lys Glu Ala Pro Phe His Arg Gln Arg  
 20 25 30  
 Leu His Arg Glu Arg Gly Asn Arg Arg Leu Gly Asn Gly Gly Glu Trp  
 35 40 45  
 Gly Arg Asn Trp Val Gln  
 50

<210> 1601  
 <211> 147  
 <212> PRT  
 <213> Homo sapiens

<400> 1601  
 Met Leu Ala Gly Ala Gly Arg Pro Gly Leu Pro Gln Gly Arg His Leu  
 1 5 10 15  
 Cys Trp Leu Leu Cys Ala Phe Thr Leu Lys Leu Cys Gln Ala Glu Ala  
 20 25 30  
 Pro Val Gln Glu Glu Lys Leu Ser Ala Ser Thr Ser Asn Leu Pro Cys  
 35 40 45  
 Trp Leu Val Glu Glu Phe Val Val Ala Glu Glu Cys Ser Pro Cys Ser  
 50 55 60  
 Asn Phe Arg Ala Lys Thr Thr Pro Glu Cys Gly Pro Thr Gly Tyr Val  
 65 70 75 80  
 Glu Lys Ile Thr Cys Ser Ser Ser Lys Arg Asn Glu Phe Lys Ser Cys  
 85 90 95  
 Arg Phe Ser Phe Glu Trp Asn Asn Ala Tyr Phe Gly Ser Ser Lys Gly  
 100 105 110  
 Ala Val Val Cys Val Ala Leu Ile Phe Ala Cys Leu Val Ile Ile Arg  
 115 120 125  
 Gln Arg Gln Leu Asp Arg Lys Ala Leu Glu Lys Val Arg Lys Gln Ile

130 135 140

Glu Ser Ile  
145

<210> 1602  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 1602  
Met Thr His Trp Ser Gly Cys Ala Ala Leu Tyr Leu Ile Phe Leu Ser  
1 5 10 15  
Leu Lys Leu Ala Phe Gln Ala Gly Ala Gly Arg Gly Ala Gln Val Gly  
20 25 30  
Ser Val Leu Pro Pro Ser Gly Gly Ala Val Val Val Asp Gln Tyr Cys  
35 40 45  
Cys Arg Leu Ser Ala Gln Thr Tyr Phe Ser Leu Pro Ala Leu Gln Lys  
50 55 60  
Cys Ile Gly Ile Cys Arg  
65 70

<210> 1603  
<211> 91  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1603  
Met Tyr Gly Lys Ser Ser Thr Arg Ala Val Leu Leu Leu Leu Gly Ile  
1 5 10 15  
Gln Leu Thr Ala Leu Trp Pro Ile Ala Ala Val Glu Ile Tyr Thr Ser  
20 25 30  
Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu Lys Cys Thr  
35 40 45  
Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr Val Thr Trp Asn  
50 55 60  
Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe Val Phe Tyr Tyr His  
65 70 75 80  
Ile Asp Pro Xaa Pro Thr His Glu Trp Ala Val

85

90

<210> 1604  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 1604  
 Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu  
   1                  5                  10                  15  
 Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr  
           20                  25                  30  
 Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met  
           35                  40                  45  
 Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile  
       50                  55                  60  
 Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gly Gln  
   65                  70                  75                  80  
 Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala  
           85                  90                  95  
 Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly  
           100                  105                  110  
 Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu  
       115                  120                  125  
 Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile  
       130                  135                  140  
 Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro  
   145                  150                  155

<210> 1605  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1605  
 Pro Thr Phe Ser Asp Gln Tyr Leu Ala Pro His Pro Tyr Ser Pro Gln  
   1                  5                  10                  15  
 Pro Pro Pro Tyr His Glu Leu Pro His Xaa His Gly Gln Ser Gln Arg



20                      25                      30  
 Val Leu Cys Gly Cys Tyr Val Ala His Cys Gy Ala Arg Leu Gly Arg  
                     35                      40                      45  
 Ala Leu Leu Val Cys Asp Trp Val Ser Trp Pro Ser Cys Ala Cys Ser  
                     50                      55                      60  
 Tyr Ser Ala Trp Ala Gln Pro Thr Ser Cys Cys His Thr Gly Asp ~~ys~~  
                     65                      70                      75                      80  
 Gly His Cys Asp Ser His Gln Gln Cys Leu Val Pro Pro Pro Ser Leu  
                     85                      90                      95  
 Arg Gly Arg Gln Gly Thr Phe Asp Tyr Phe  
                     100                      105

<210> 1606  
 <211> 708  
 <212> PRT  
 <213> Homo sapiens

<400> 1606  
 Met Lys Asp Met Pro Leu Arg Ile His Val Leu Leu Gly Leu Ala Ile  
   1                    5                    10                    15  
 Thr Thr Leu Val Gln Ala Val Asp Lys Lys Val Asp Cys Pro Arg Leu  
                     20                    25                    30  
 Cys Thr Cys Glu Ile Arg Pro Trp Phe Thr Pro Arg Ser Ile Tyr Met  
                     35                    40                    45  
 Glu Ala Ser Thr Val Asp Cys Asn Asp Leu Gly Leu Leu Thr Phe Pro  
                     50                    55                    60  
 Ala Arg Leu Pro Ala Asn Thr Gln Ile Leu Leu Leu Gln Thr Asn Asn  
                     65                    70                    75                    80  
 Ile Ala Lys Ile Glu Tyr Ser Thr Asp Phe Pro Val Asn Leu Thr Gly  
                     85                    90                    95  
 Leu Asp Leu Ser Gln Asn Asn Leu Ser Ser Val Thr Asn Ile Asn Val  
                     100                    105                    110  
 Lys Lys Met Pro Gln Leu Leu Ser Val Tyr Leu Glu Glu Asn Lys Leu  
                     115                    120                    125  
 Thr Glu Leu Pro Glu Lys Cys Leu Ser Glu Leu Ser Asn Leu Gln Glu  
                     130                    135                    140  
 Leu Tyr Ile Asn His Asn Leu Leu Ser Thr Ile Ser Pro Gly Ala Phe  
                     145                    150                    155                    160  
 Ile Gly Leu His Asn Leu Leu Arg Leu His Leu Asn Ser Asn Arg Leu  
                     165                    170                    175

Gln Met Ile Asn Ser Lys Trp Phe Asp Ala Leu Pro Asn Leu Glu Ile  
 180 185 190  
 Leu Met Ile Gly Glu Asn Pro Ile Ile Arg Ile Lys Asp Met Asn Phe  
 195 200 205  
 Lys Pro Leu Ile Asn Leu Arg Ser Leu Val Ile Ala Gly Ile Asn Leu  
 210 215 220  
 Thr Glu Ile Pro Asp Asn Ala Leu Val Gly Leu Glu Asn Leu Glu Ser  
 225 230 235 240  
 Ile Ser Phe Tyr Asp Asn Arg Leu Ile Lys Val Pro His Val Ala Leu  
 245 250 255  
 Gln Lys Val Val Asn Leu Lys Phe Leu Asp Leu Asn Lys Asn Pro Ile  
 260 265 270  
 Asn Arg Ile Arg Arg Gly Asp Phe Ser Asn Met Leu His Leu Lys Glu  
 275 280 285  
 Leu Gly Ile Asn Asn Met Pro Glu Leu Ile Ser Ile Asp Ser Leu Ala  
 290 295 300  
 Val Asp Asn Leu Pro Asp Leu Arg Lys Ile Glu Ala Thr Asn Asn Pro  
 305 310 315 320  
 Arg Leu Ser Tyr Ile His Pro Asn Ala Phe Phe Arg Leu Pro Lys Leu  
 325 330 335  
 Glu Ser Leu Met Leu Asn Ser Asn Ala Leu Ser Ala Leu Tyr His Gly  
 340 345 350  
 Thr Ile Glu Ser Leu Pro Asn Leu Lys Glu Ile Ser Ile His Ser Asn  
 355 360 365  
 Pro Ile Arg Cys Asp Cys Val Ile Arg Trp Met Asn Met Asn Lys Thr  
 370 375 380  
 Asn Ile Arg Phe Met Glu Pro Asp Ser Leu Phe Cys Val Asp Pro Pro  
 385 390 395 400  
 Glu Phe Gln Gly Gln Asn Val Arg Gln Val His Phe Arg Asp Met Met  
 405 410 415  
 Glu Ile Cys Leu Pro Leu Ile Ala Pro Glu Ser Phe Pro Ser Asn Leu  
 420 425 430  
 Asn Val Glu Ala Gly Ser Tyr Val Ser Phe His Cys Arg Ala Thr Ala  
 435 440 445  
 Glu Pro Gln Pro Glu Ile Tyr Trp Ile Thr Pro Ser Gly Gln Lys Leu  
 450 455 460  
 Leu Pro Asn Thr Leu Thr Asp Lys Phe Tyr Val His Ser Glu Gly Thr  
 465 470 475 480

Leu Asp Ile Asn Gly Val Thr Pro Lys Glu Gly Gly Leu Tyr Thr Cys  
                     485                    490                    495  
 Ile Ala Thr Asn Leu Val Gly Ala Asp Leu Lys Ser Val Met Ile Lys  
                     500                    505                    510  
 Val Asp Gly Ser Phe Pro Gln Asp Asn Asn Gly Ser Leu Asn Ile Lys  
                     515                    520                    525  
 Ile Arg Asp Ile Gln Ala Asn Ser Val Leu Val Ser Trp Lys Ala Ser  
                     530                    535                    540  
 Ser Lys Ile Leu Lys Ser Ser Val Lys Trp Thr Ala Phe Val Lys Thr  
 545                    550                    555                    560  
 Glu Asn Ser His Ala Ala Gln Ser Ala Arg Ile Pro Ser Asp Val Lys  
                     565                    570                    575  
 Val Tyr Asn Leu Thr His Leu Asn Pro Ser Thr Glu Tyr Lys Ile Cys  
                     580                    585                    590  
 Ile Asp Ile Pro Thr Ile Tyr Gln Lys Asn Arg Lys Lys Cys Val Asn  
                     595                    600                    605  
 Val Thr Thr Lys Gly Leu His Pro Asp Gln Lys Glu Tyr Glu Lys Asn  
                     610                    615                    620  
 Asn Thr Thr Thr Leu Met Ala Cys Leu Gly Gly Leu Leu Gly Ile Ile  
 625                    630                    635                    640  
 Gly Val Ile Cys Leu Ile Ser Cys Leu Ser Pro Glu Met Asn Cys Asp  
                     645                    650                    655  
 Gly Gly His Ser Tyr Val Arg Asn Tyr Leu Gln Lys Pro Thr Phe Ala  
                     660                    665                    670  
 Leu Gly Glu Leu Tyr Pro Pro Leu Ile Asn Leu Trp Glu Ala Gly Lys  
                     675                    680                    685  
 Glu Lys Ser Thr Ser Leu Lys Val Lys Ala Thr Val Ile Gly Leu Pro  
                     690                    695                    700  
 Thr Asn Met Ser  
 705

<210> 1607

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (237)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1607  
 Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Tyr Leu Leu  
   1                  5                  10                  15  
  
 Leu Val Ala Ile Val Leu Ala His Val Leu Ala Phe Phe Trp Phe His  
                   20                  25                  30  
  
 His Tyr Gly Pro Pro Pro Pro Arg Ala Ala Phe Val Glu En Pro  
           35                  40                  45  
  
 Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly  
   50                  55                  60  
  
 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala  
   65                  70                  75                  80  
  
 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser  
                   85                  90                  95  
  
 Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val  
           100                  105                  110  
  
 Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu  
   115                  120                  125  
  
 Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu  
   130                  135                  140  
  
 Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu  
   145                  150                  155                  160  
  
 Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln  
           165                  170                  175  
  
 Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu  
           180                  185                  190  
  
 His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala  
   195                  200                  205  
  
 Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val  
   210                  215                  220  
  
 Gln Phe Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr  
   225                  230                  235                  240  
  
 Pro Pro Pro Phe

<210> 1608  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (231)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (237)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1608  
 Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu  
   1                  5                  10                  15  
 Leu Val Ala Ile Val Leu Ala His Xaa Leu Ala Phe Phe Trp Phe His  
                   20                  25                  30  
 His Tyr Gly Pro Pro Pro Pro Xaa Xaa Ala Xaa Phe Val Glu Gln Pro  
           35                  40                  45  
 Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly  
   50                  55                  60  
 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala  
   65                  70                  75                  80  
 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser  
                   85                  90                  95  
 Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val  
           100                  105                  110

Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu  
 115 120 125  
 Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu  
 130 135 140  
 Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu  
 145 150 155 160  
 Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln  
 165 170 175  
 Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu  
 180 185 190  
 His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala  
 195 200 205  
 Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val  
 210 215 220  
 Gln Phe Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr  
 225 230 235 240  
 Pro Pro Pro Phe

<210> 1609  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 1609  
 Met Gly Leu Phe Leu Phe Leu Val Ser Ser  
 1 5 10

<210> 1610  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 1610  
 Met Trp Lys Leu Trp Arg Ala Glu Glu Gly Ala Ala Ala Leu Gly Gly  
 1 5 10 15  
 Ala Leu Phe Leu Leu Leu Phe Ala Leu Gly Val Arg Gln Leu Leu Lys  
 20 25 30  
 Gln Arg Arg Pro Met Gly Phe Pro Pro Gly Pro Pro Gly Leu Pro Phe  
 35 40 45  
 Ile Gly Asn Ile Tyr Ser Leu Ala Ala Ser Ser Glu Leu Pro His Val  
 50 55 60

Tyr Met Arg Lys Gln Ser Gln Val Tyr Gly Glu Val Gln Pro Arg Arg  
 65 70 75 80  
 Ala Pro Gly Arg Glu Gly Arg Gln Ala Gly Pro Gly Trp Pro Gly Pro  
 85 90 95  
 Ser Trp Leu Asp Leu Trp Pro Pro Leu Gly Arg Leu Val Gly Thr Ser  
 100 105 110  
 Pro Cys Ala Gly Cys Pro Leu Arg Asp Thr Arg Phe Pro Gly Leu Glu  
 115 120 125  
 Gly Arg Ser Pro Arg Arg Arg Ala Pro Leu Gln Gly Glu Pro Arg Pro  
 130 135 140  
 Cys Arg  
 145

<210> 1611  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1611  
 Met Val Thr Phe Ala Ser Ser Thr Leu Trp Ile Ala Ala Phe Ser Tyr  
 1 5 D 15  
 Met Met Val Trp Met Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro  
 20 25 30  
 Asp Val Ile Met Gly Asp His Leu Pro Gly Cys Trp Asp Gln Arg Ala  
 35 40 45

<210> 1612  
 <211> 271  
 <212> PRT  
 <213> Homo sapiens

<400> 1612  
 Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala Pro Gly Thr Glu  
 1 5 10 15  
 Gly Gln Gln Gln Val His Gly Glu Lys Lys Glu Ala Pro Ala Val Pro  
 20 25 30  
 Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu Gly Met Lys  
 35 40 45  
 Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro Leu His Pro Ser

50                      55                      60  
 Trp Ala Tyr Val Asp Pro Ser Ser Ser Ser Tyr Asp Asn Gly Phe  
 65                      70                      75                      80  
 Pro Thr Gly Asp His Glu Leu Phe Thr Thr Phe Ser Trp Asp Asn Gln  
 85                      90                      95  
 Lys Val Arg Arg Val Phe Val Arg Lys Val Tyr Thr Ile Leu Leu Ile  
 100                      105                      110  
 Gln Leu Leu Val Thr Leu Ala Val Val Ala Leu Phe Thr Phe Cys Asn  
 115                      120                      125  
 Pro Val Lys Asp Tyr Val Gln Ala Asn Pro Gly Trp Tyr Trp Ala Ser  
 130                      135                      140  
 Tyr Ala Val Phe Phe Ala Thr Tyr Leu Thr Leu Ala Cys Cys Ser Gly  
 145                      150                      155                      160  
 Pro Arg Arg His Phe Pro Trp Glu Pro Asp Ser Pro Asp Arg Leu Tyr  
 165                      170                      175  
 Pro Val His Gly Leu Pro His Trp Asp Ala Val Gln Leu Leu Gln His  
 180                      185                      190  
 His Leu Arg Ala Ala Val Pro Gly His His Gly Pro Cys Leu Pro Leu  
 195                      200                      205  
 Ser His Arg Leu Gln Leu Pro Asp Gln Val Arg Leu His Leu Leu Pro  
 210                      215                      220  
 Gly Arg Ala Leu Arg Ala Ser His Asp Ser Phe Leu Gln Arg Thr His  
 225                      230                      235                      240  
 Pro Gly His Pro Pro Thr Leu Pro Ile Cys Ala Leu Ala Pro Cys Ser  
 245                      250                      255  
 Leu Cys Ser Thr Gly Ser Gly Cys Ile Tyr Ile Val Pro Gly Thr  
 260                      265                      270

<210> 1613  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<400> 1613  
 Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr Thr Ser  
 1                      5                      10                      15  
 Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser Val Thr  
 20                      25                      30  
 Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln Gly Val  
 35                      40                      45



Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile Leu Ala  
     50                            55                            60  
 Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala ValTyr Ala  
     65                            70                            75                            80  
 Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Asp Thr Gln  
                             85                            90                            95  
 Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro GluGlu Tyr Ile  
                     100                            105                            110  
 Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe Thr Phe  
             115                            120                            125  
 Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu  
     130                            135

<210> 1614  
 <211> 612  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (245)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (246)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (249)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1614  
 Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser Pro  
     1                            5                            10                            15  
 Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro Ala Arg  
             20                            25                            30  
 Ala Leu His Asn Val Thr Ala Glu Leu Phe Gly Ala Glu Ala Trp Gly  
             35                            40                            45  
 Thr Leu Ala Ala Phe Gly Asp Leu Asn Ser Asp Lys Gln Thr Asp Leu  
     50                            55                            60  
 Phe Val Leu Arg Glu Arg Asn Asp Leu Ile Val Phe Leu Ala Asp Gln  
     65                            70                            75                            80

Asn	Ala	Pro	Tyr	Phe	Lys	Pro	Lys	Val	Lys	Val	Ser	Phe	Lys	Asn	His		
				85					90					95			
Ser	Ala	Leu	Ile	Thr	Ser	Val	Val	Pro	Gly	Asp	Tyr	Asp	Gly	Asp	Ser		
			100					105					110				
Gln	Met	Asp	Val	Leu	Leu	Thr	Tyr	Leu	Pro	Lys	Asn	Tyr	Ala	Lys	Ser		
		115					120					125					
Glu	Leu	Gly	Ala	Val	Ile	Phe	Trp	Gly	Gln	Asn	Gln	Thr	Leu	Asp	Pro		
	130					135					140						
Asn	Asn	Met	Thr	Ile	Leu	Asn	Arg	Thr	Phe	Gln	Asp	Glu	Pro	Leu	Ile		
145					150					155					160		
Met	Asp	Phe	Asn	Gly	Asp	Leu	Ile	Pro	Asp	Ile	Phe	Gly	Ile	Thr	Asn		
				165				170						175			
Glu	Ser	Asn	Gln	Pro	Gln	Ile	Leu	Leu	Gly	Gly	Asn	Leu	Ser	Trp	His		
			180					185					190				
Pro	Ala	Leu	Thr	Thr	Thr	Ser	Lys	Met	Arg	Ile	Pro	His	Ser	His	Ala		
		195					200					205					
Phe	Ile	Asp	Leu	Thr	Glu	Asp	Phe	Thr	Ala	Asp	Leu	Phe	Leu	Thr	Thr		
	210					215					220						
Leu	Asn	Ala	Thr	Thr	Ser	Thr	Phe	Gln	Phe	Glu	Ile	Trp	Glu	Asn	Leu		
225					230					235					240		
Asp	Gly	Asn	Phe	Xaa	Xaa	Ser	Thr	Xaa	Leu	Glu	Lys	Pro	Gln	Asn	Met		
				245					250					255			
Met	Val	Val	Gly	Gln	Ser	Ala	Phe	Ala	Asp	Phe	Asp	Gly	Asp	Gly	His		
			260					265					270				
Met	Asp	His	Leu	Leu	Pro	Gly	Cys	Glu	Asp	Lys	Asn	Cys	Gln	Lys	Ser		
		275					280					285					
Thr	Ile	Tyr	Leu	Val	Arg	Ser	Gly	Met	Lys	Gln	Trp	Val	Pro	Val	Leu		
	290					295					300						
Gln	Asp	Phe	Ser	Asn	Lys	Gly	Thr	Leu	Trp	Gly	Phe	Val	Pro	Phe	Val		
305					310					315					320		
Asp	Glu	Gln	Gln	Pro	Thr	Glu	Ile	Pro	Ile	Pro	Ile	Thr	Leu	His	Ile		
				325					330					335			
Gly	Asp	Tyr	Asn	Met	Asp	Gly	Tyr	Pro	Asp	Ala	Leu	Val	Ile	Leu	Lys		
			340					345					350				
Asn	Thr	Ser	Gly	Ser	Asn	Gln	Gln	Ala	Phe	Leu	Leu	Glu	Asn	Val	Pro		
		355					360					365					
Cys	Asn	Asn	Ala	Ser	Cys	Glu	Glu	Ala	Arg	Arg	Met	Phe	Lys	Val	Tyr		
	370					375					380						

Trp Glu Leu Thr Asp Leu Asn Gln Ile Lys Asp Ala Met Val Ala Thr  
 385 390 395 400  
 Phe Phe Asp Ile Tyr Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser  
 405 410 415  
 Lys Gly Tyr Thr Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn  
 420 425 430  
 Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu  
 435 440 445  
 Cys Ser Asn Asp Cys Pro Arg Lys Ile Thr Pro Phe Gly Val Asn Gln  
 450 455 460  
 Pro Gly Pro Tyr Ile Met Tyr Thr Thr Val Asp Ala Asn Gly Tyr Leu  
 465 470 475 480  
 Lys Asn Gly Ser Ala Gly Gln Leu Ser Gln Ser Ala His Leu Ala Leu  
 485 490 495  
 Gln Leu Pro Tyr Asn Val Leu Gly Leu Gly Arg Ser Ala Asn Phe Leu  
 500 505 510  
 Asp His Leu Tyr Val Gly Ile Pro Arg Pro Ser Gly Glu Lys Ser Ile  
 515 520 525  
 Arg Lys Gln Glu Trp Thr Ala Ile Ile Pro Asn Ser Gln Leu Ile Val  
 530 535 540  
 Ile Pro Tyr Pro His Asn Val Pro Arg Ser Trp Ser Ala Lys Leu Tyr  
 545 550 555 560  
 Leu Thr Pro Ser Asn Ile Val Leu Leu Thr Ala Ile Ala Leu Ile Gly  
 565 570 575  
 Val Cys Val Phe Ile Leu Ala Ile Ile Gly Ile Leu His Trp Gln Glu  
 580 585 590  
 Lys Lys Ala Asp Asp Arg Glu Lys Arg Gln Glu Ala His Arg Phe His  
 595 600 605  
 Phe Asp Ala Met  
 610

<210> 1615  
 <211> 456  
 <212> PRT  
 <213> Homo sapiens

<400> 1615  
 Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser Pro  
 1 5 10 15  
 Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro Ala Arg

20					25					30					
Ala	Leu	His	Asn	Val	Thr	Ala	Glu	Leu	Phe	Gly	Ala	Glu	Ala	Trp	Gly
		35					40					45			
Thr	Leu	Ala	Ala	Phe	Gly	Asp	Leu	Asn	Ser	Asp	Lys	Gln	Thr	Asp	Leu
	50					55					60				
Phe	Val	Leu	Arg	Glu	Arg	Asn	Asp	Leu	Ile	Val	Phe	Leu	Ala	Asp	Gln
65					70					75					80
Asn	Ala	Pro	Tyr	Phe	Lys	Pro	Lys	Val	Lys	Val	Ser	Phe	Lys	Asn	His
				85					90					95	
Ser	Ala	Leu	Ile	Thr	Ser	Val	Val	Pro	Gly	Asp	Tyr	Asp	Gly	Asp	Ser
			100					105					110		
Gln	Met	Asp	Val	Leu	Leu	Thr	Tyr	Leu	Pro	Lys	Asn	Tyr	Ala	Lys	Ser
	115						120					125			
Glu	Leu	Gly	Ala	Val	Ile	Phe	Trp	Gly	Gln	Asn	Gln	Thr	Leu	Asp	Pro
	130					135						140			
Asn	Asn	Met	Thr	Ile	Leu	Asn	Arg	Thr	Phe	Gln	Asp	Glu	Pro	Leu	Ile
145					150					15					160
Met	Asp	Phe	Asn	Gly	Asp	Leu	Ile	Pro	Asp	Ile	Phe	Gly	Ile	Thr	Asn
				165					170					175	
Glu	Ser	Asn	Gln	Pro	Gln	Ile	Leu	Leu	Gly	Gly	Asn	Leu	Ser	Trp	His
			180					185					190		
Pro	Ala	Leu	Thr	Thr	Thr	Ser	Lys	Met	Arg	Ile	Pro	His	Ser	His	Ala
		195					200						205		
Phe	Ile	Asp	Leu	Thr	Glu	Asp	Phe	Thr	Ala	Asp	Leu	Phe	Leu	Thr	Thr
	210					215					220				
Leu	Asn	Ala	Thr	Thr	Ser	Thr	Phe	Gln	Phe	Glu	Ile	Trp	Glu	Asn	Leu
225					230					235					240
Asp	Gly	Asn	Phe	Ser	Val	Ser	Thr	Ile	Leu	Glu	Lys	Pro	Gln	Asn	Met
				245					250					25	
Met	Val	Val	Gly	Gln	Ser	Ala	Phe	Ala	Asp	Phe	Asp	Gly	Asp	Gly	His
			260					265					270		
Met	Asp	His	Leu	Leu	Pro	Gly	Cys	Glu	Asp	Lys	Asn	Cys	Gln	Lys	Ser
		275					280					285			
Thr	Ile	Tyr	Leu	Val	Arg	Ser	Gly	Met	Lys	Gln	Trp	Val	Pro	Val	Leu
	290					295					300				
Gln	Asp	Phe	Ser	Asn	Lys	Gly	Thr	Leu	Trp	Gly	Phe	Val	Pro	Phe	Val
305					310					315					320
Asp	Glu	Gln	Gln	Pro	Thr	Glu	Ile	Pro	Ile	Pro	Ile	Thr	Leu	His	Ile

325										330										335										
Gly	Asp	Tyr	Asn	Met	Asp	Gly	Tyr	Pro	Asp	Ala	Leu	Val	Ile	Leu	Lys															
			340					345					350																	
Asn	Thr	Ser	Gly	Ser	Asn	Gln	Gln	Ala	Phe	Leu	Leu	Glu	Asn	Val	Pro															
		355					360					365																		
Cys	Asn	Asn	Ala	Ser	Cys	Glu	Glu	Ala	Arg	Arg	Met	Phe	Lys	Val	Tyr															
	370					375					380																			
Trp	Glu	Leu	Thr	Asp	Leu	Asn	Gln	Ile	Lys	Asp	Ala	Met	Val	Ala	Thr															
385					390					395					400															
Phe	Phe	Asp	Ile	Tyr	Glu	Asp	Gly	Ile	Leu	Asp	Ile	Val	Val	Leu	Ser															
			405						410					415																
Lys	Gly	Tyr	Thr	Lys	Asn	Asp	Phe	Ala	Ile	His	Thr	Leu	Lys	Asn	Asn															
			420					425					430																	
Phe	Glu	Ala	Asp	Ala	Tyr	Phe	Val	Lys	Val	Ile	Val	Leu	Ser	Gly	Leu															
		435					440					445																		
Cys	Ser	Asn	Asp	Cys	Pro	Arg	Arg																							
	450					455																								

<210> 1616  
 <211> 264  
 <212> PRT  
 <213> Homo sapiens

<400> 1616  
 Met Pro Phe Arg Leu Leu Ile Pro Leu Gly Leu Leu Cys Ala Leu Leu  
 1 5 10 15  
 Pro Gln His His Gly Ala Pro Gly Pro Asp Gly Ser Ala Pro Asp Pro  
 20 25 30  
 Ala His Tyr Arg Glu Arg Val Lys Ala Met Phe Tyr His Ala Tyr Asp  
 35 40 45  
 Ser Tyr Leu Glu Asn Ala Phe Pro Phe Asp Glu Leu Arg Pro Leu Thr  
 50 55 60  
 Cys Asp Gly His Asp Thr Trp Gly Ser Phe Ser Leu Thr Leu Ile Asp  
 65 70 75 80  
 Ala Leu Asp Thr Leu Leu Ile Leu Gly Asn Val Ser Glu Phe Gln Arg  
 85 90 95  
 Val Val Glu Val Leu Gln Asp Ser Val Asp Phe Asp Ile Asp Val Asn  
 100 105 110  
 Ala Ser Val Phe Glu Thr Asn Ile Arg Val Val Gly Gly Leu Leu Se  
 115 120 125

Ala His Leu Leu Ser Lys Lys Ala Gly Val Glu Val Glu Ala Gly Trp  
 130 135 140  
 Pro Cys Ser Gly Pro Leu Leu Arg Met Ala Glu Glu Ala Ala Arg Lys  
 145 150 155 160  
 Leu Leu Pro Ala Phe Gln Thr Pro Thr Gly Met Pro Tyr Gly Thr Val  
 165 170 175  
 Asn Leu Leu His Gly Val Asn Pro Gly Glu Thr Pro Val Thr Cys Thr  
 180 185 190  
 Ala Gly Ile Gly Thr Phe Ile Val Glu Phe Ala Thr Leu Ser Ser Leu  
 195 200 205  
 Thr Gly Asp Pro Val Phe Glu Asp Val Ala Arg Val Ala Leu Met Arg  
 210 215 220  
 Leu Trp Glu Ser Arg Ser Asp Ile Gly Leu Val Gly Asn His Ile Asp  
 225 230 235 240  
 Val Leu Thr Gly Lys Gly Trp Pro Arg Thr Gln Ala Ser Gly Leu Ala  
 245 250 255  
 Trp Thr Pro Thr Leu Ser Thr Trp  
 260

<210> 1617  
 <211> 316  
 <212> PRT  
 <213> Homo sapiens

<400> 1617  
 Met Leu Arg Arg Arg Gly Ser Pro Gly Met Gly Val His Val Gly Ala  
 1 5 10 15  
 Ala Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln  
 20 25 30  
 Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu  
 35 40 45  
 Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn  
 50 55 60  
 Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala  
 65 70 75 80  
 Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe  
 85 90 95  
 Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val  
 100 105 110

Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp  
 115 120 125  
 Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys  
 130 135 140  
 Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr  
 145 150 155 160  
 Val Thr Ile Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val  
 165 170 175  
 Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr  
 180 185 190  
 Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu  
 195 200 205  
 Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn  
 210 215 220  
 Pro Val Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Gly Gln  
 225 230 235 240  
 Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu Ser  
 245 250 255  
 Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg  
 260 265 270  
 Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln  
 275 280 285  
 Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys His  
 290 295 300  
 Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala  
 305 310 315

<210> 1618

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1618

Met Arg Leu Gly Ser Pro Gly Leu Leu Phe Leu LeuPhe Ser Ser Leu  
 1 5 10 15

Arg Ala Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp  
 20 25 30

Val Glu Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg PheAsp Leu Asn  
 35 40 45  
 Asp Val Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr  
 50 55 60  
 Tyr His Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr  
 65 70 75 80  
 Arg Asn Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe  
 85 90 95  
 Ser Leu Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His  
 100 105 110  
 Cys Leu Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Xaa  
 115 120 125  
 Glu Val Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser  
 130 135 140  
 Ala Pro His Ser Pro Ser Gln Asp Glu Leu Thr Phe Thr Cys Thr Ser  
 145 150 155 160  
 Ile Asn Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp  
 165 170 175  
 Asn Ser Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn  
 180 185 190  
 Met Arg Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr  
 195 200 205  
 Pro Ser Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln  
 210 215 220  
 Asn Leu Thr Val Gly Ser Gln Thr Gly Asn Asp Ile Gly Glu Arg Asp  
 225 230 235 240  
 Lys Ile Thr Glu Asn Pro Val Ser Thr Gly Glu Lys Asn Ala Ala Thr  
 245 250 255  
 Trp Ser Ile Leu Ala Val Leu Cys Leu Leu Val Val Val Ala Val Ala  
 260 265 270  
 Ile Gly Trp Val Cys Arg Asp Arg Cys Leu Gln His Ser Tyr Ala Gly  
 275 280 285  
 Ala Trp Ala Val Ser Pro Glu Thr Glu Leu Thr Gly His Val  
 290 295 300

<210> 1619  
 <211> 109  
 <212> PRT



<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1619

Met	Asn	Thr	Leu	Val	Leu	Trp	Ile	Phe	Gly	Phe	Leu	Ile	Cys	Leu	Gly
1				5					10					15	
Ile	Ile	Leu	Ala	Ile	Gly	Asn	Ser	Ile	Trp	Glu	Ser	Gln	Thr	Gly	Asp
		20						25					30		
Gln	Phe	Arg	Thr	Phe	Leu	Phe	Trp	Asn	Glu	Gly	Glu	Lys	Ser	Ser	Val
		35					40					45			
Phe	Ser	Gly	Phe	Leu	Thr	Phe	Trp	Ser	Tyr	Ile	Ile	Ile	Leu	Asn	Thr
	50					55					60				
Val	Val	Pro	Ile	Ser	Leu	Tyr	Val	Ser	Val	Glu	Val	Ile	Arg	Leu	Gly
65					70					75				80	
His	Ser	Tyr	Phe	Ile	Asn	Trp	Asp	Arg	Lys	Met	Tyr	Tyr	Xaa	Arg	Lys
				85					90					95	
Ala	Ile	Pro	Ala	Val	Ala	Arg	Thr	Thr	Thr	Leu	Asn	Glu			
			100					105							

<210> 1620

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1620

Ile	Asn	His	Val	Phe	Ile	Trp	Gly	Ser	Ile	Ala	Ile	Tyr	Phe	Ser	Ile
1				5					10					15	
Leu	Phe	Thr	Met	His	Ser	Asn	Gly	Ile	Phe	Gly	Ile	Phe	Pro	Asn	Gln
			20					25					30		
Phe	Pro	Phe	Val	Gly	Asn	Ala	Arg	His	Ser	Leu	Thr	Xaa	Lys		
		35					40					45			

<210> 1621

<211> 6

<212> PRT

<213> Homo sapiens

<400> 1621  
 Thr Val Ala Ile Tyr Asp  
           1                          5

<210> 1622  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 1622  
 Phe Leu Val Cys Leu Leu Leu Gly Pro Arg Ser  
           1                          5                          10

<210> 1623  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1623  
 Lys Ser Gln Met Gln Ser Phe Thr Ile Val Thr Ala Tyr Gly Arg Cys  
           1                          5                          10                          15  
 Leu Ser Leu Thr Cys Leu Pro Thr Leu Asn Gln Met Leu Val Phe Lys  
                           20                          25                          30  
 Ser Asn Xaa Ser Leu Val Ser Pro His Xaa Leu Thr Phe Xaa Asn Ile  
                           35                          40                          45  
 Phe Ala Arg Phe Glu Asn Phe Gln  
           50                          55

<210> 1624  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1624

Asn Tyr Asn Arg Gly Gly Thr Phe Leu Tyr Gln Lys Ala Lys Ile Lys  
1 5 10 15  
His His Val Leu Met Val Phe Tyr Lys Ser Thr Ser Asn Ser Thr Glu  
20 25 30  
Ser Leu Ile Trp Ser Leu Leu Asn Ser Trp Ser Asp Lys Val Thr Phe  
35 40 45  
Pro Lys Arg Val Arg  
50

<210> 1625

<211> 566

<212> PRT

<213> Homo sapiens

<400> 1625

Met Ala Pro Leu Ala Leu His Leu Leu Val Leu Val Pro Ile Leu Leu  
1 5 10 15  
Ser Leu Val Ala Ser Gln Asp Trp Lys Ala Glu Arg Ser Gln Asp Pro  
20 25 30  
Phe Glu Lys Cys Met Gln Asp Pro Asp Tyr Glu Gln Leu Leu Lys Val  
35 40 45  
Val Thr Trp Gly Leu Asn Arg Thr Leu Lys Pro Gln Arg Val Ile Val  
50 55 60  
Val Gly Ala Gly Val Ala Gly Leu Val Ala Ala Lys Val Leu Ser Asp  
65 70 75 80  
Ala Gly His Lys Val Thr Ile Leu Glu Ala Asp Asn Arg Ile Gly Gly  
85 90 95  
Arg Ile Phe Thr Tyr Arg Asp Gln Asn Thr Gly Trp Ile Gly Glu Leu  
100 105 110  
Gly Ala Met Arg Met Pro Ser Ser His Arg Ile Leu His Lys Leu Cys  
115 120 125  
Gln Gly Leu Gly Leu Asn Leu Thr Lys Phe Thr Gln Tyr Asp Lys Asn  
130 135 140  
Thr Trp Thr Glu Val His Glu Val Lys Leu Arg Asn Tyr Val Val Glu  
145 150 155 160  
Lys Val Pro Glu Lys Leu Gly Tyr Ala Leu Arg Pro Gln Glu Lys Gly  
165 170 175  
His Ser Pro Glu Asp Ile Tyr Gln Met Ala Leu Asn Gln Ala Leu Lys  
180 185 190

Asp Leu Lys Ala Leu Gly Cys Arg Lys Ala Met Lys Lys Phe Glu Arg  
 195 200 205  
 His Thr Leu Leu Glu Tyr Leu Leu Gly Glu Gly Asn Leu Ser Arg Pro  
 210 215 220  
 Ala Val Gln Leu Leu Gly Asp Val Met Ser Glu Asp Gly Phe Phe Tyr  
 225 230 235 240  
 Leu Ser Phe Ala Glu Ala Leu Arg Ala His Ser Cys Leu Ser Asp Arg  
 245 250 255  
 Leu Gln Tyr Ser Arg Ile Val Gly Gly Trp Asp Leu Leu Pro Arg Ala  
 260 265 270  
 Leu Leu Ser Ser Leu Ser Gly Leu Val Leu Leu Asn Ala Pro Val Val  
 275 280 285  
 Ala Met Thr Gln Gly Pro His Asp Val His Val Gln Ile Glu Thr Ser  
 290 295 300  
 Pro Pro Ala Arg Asn Leu Lys Val Leu Lys Ala Asp Val Val Leu Leu  
 305 310 315 320  
 Thr Ala Ser Gly Pro Ala Val Lys Arg Ile Thr Phe Ser Pro Pro Leu  
 325 330 335  
 Pro Arg His Met Gln Glu Ala Leu Arg Arg Leu His Tyr Val Pro Ala  
 340 345 350  
 Thr Lys Val Phe Leu Ser Phe Arg Arg Pro Phe Trp Arg Glu Glu His  
 355 360 365  
 Ile Glu Gly Gly His Ser Asn Thr Asp Arg Pro Ser Arg Met Ile Phe  
 370 375 380  
 Tyr Pro Pro Pro Arg Glu Gly Ala Leu Leu Leu Ala Ser Tyr Thr Trp  
 385 390 395 400  
 Ser Asp Ala Ala Ala Ala Phe Ala Gly Leu Ser Arg Glu Glu Ala Leu  
 405 410 415  
 Arg Leu Ala Leu Asp Asp Val Ala Ala Leu His Gly Pro Val Val Arg  
 420 425 430  
 Gln Leu Trp Asp Gly Thr Gly Val Val Lys Arg Trp Ala Glu Asp Gln  
 435 440 445  
 His Ser Gln Gly Gly Phe Val Val Gln Pro Pro Ala Leu Trp Gln Thr  
 450 455 460  
 Glu Lys Asp Asp Trp Thr Val Pro Tyr Gly Arg Ile Tyr Phe Ala Gly  
 465 470 475 480  
 Glu His Thr Ala Tyr Pro His Gly Trp Val Glu Thr Ala Val Lys Leu  
 485 490 495

Leu Arg Ala Ala Ile Lys Ile Asn Ser Arg Lys Gly Pro Ala Ser Asp  
                   500                                  505                                  510  
 Thr Ala Ser Pro Glu Gly His Ala Ser Asp Met Glu Gly Gln Gly His  
                   515                                  520                                  525  
 Val His Gly Val Ala Ser Ser Pro Ser His Asp Leu Ala Lys Glu Glu  
                   530                                  535                                  540  
 Gly Ser His Pro Pro Val Gln Gly Gln Leu Ser Leu Gln Asn Thr Thr  
                   545                                  550                                  555                                  560  
 His Thr Arg Thr Ser His  
                                   565

<210> 1626

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (213)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1626

Met Ala Pro Leu Ala Leu His LeuLeu Val Leu Val Pro Ile Leu Leu  
           1                                  5                                  10                                  15

Ser Leu Val Ala Ser Gln Asp Trp Lys Ala Glu Arg Ser Gln Asp Pro  
                   20                                  25                                  30

Phe Glu Lys Cys Met Gln Asp Pro AspTyr Glu Gln Leu Leu Lys Val  
                   35                                  40                                  45

Thr Ile Leu Glu Ala Asp Asn Arg Ile Gly Gly Arg Ile Phe Thr Tyr  
                   50                                  55                                  60

Arg Asp Gln Xaa Thr Gly Trp Ile Gly Glu Leu Gly Ala MetArg Met  
           65                                  70                                  75                                  80

Pro Ser Ser His Arg Ile Leu His Lys Leu Cys Gln Gly Leu Gly Leu  
                                   85                                  90                                  95

Asn Leu Thr Lys Phe Thr Gln Tyr Asp Lys Asn Thr TrpThr Glu Val  
 100 105 110  
 His Glu Xaa Lys Leu Arg Asn Tyr Val Val Glu Lys Val Pro Glu Lys  
 115 120 125  
 Leu Gly Tyr Ala Leu Arg Pro Gln Glu Lys Gly His Ser Pro Glu Asp  
 130 135 140  
 Ile Tyr Gln Met Ala Leu Asn Gln Ala Leu Lys Asp Leu Lys Ala Leu  
 145 150 155 160  
 Gly Cys Arg Lys Ala Met Lys Lys Phe Glu Arg His Thr Leu Leu Glu  
 165 170 175  
 Tyr Leu Leu Gly Glu Gly Asn Leu Ser Arg Pro Ala Val Gln Leu Leu  
 180 185 190  
 Gly Asp Val Met Ser Glu Asp Gly Phe Phe Tyr Leu Ser Phe Ala Glu  
 195 200 205  
 Ala Leu Arg Ala Xaa Ser Cys Leu Ser Asp Arg Leu Gln Tyr Ser Arg  
 210 215 220  
 Ile Val Gly Gly Trp Asp Leu Leu Pro Arg Ala Leu Leu Ser Ser Leu  
 225 230 235 240  
 Ser Gly Leu Val Leu Leu Asn Ala Pro Val Val Ala Met Thr Gln Gly  
 245 250 255  
 Pro His Asp Val His Val Gln Ile Glu Thr Ser Pro Pro Ala Arg Asn  
 260 265 270  
 Leu Lys Val Leu Lys Ala Asp Val Val Leu Leu Thr Ala Ser Gly Pro  
 275 280 285  
 Ala Val Lys Arg Ile Thr Phe Ser Pro Arg Cys Pro Ala Thr Cys Arg  
 290 295 300  
 Arg Arg Cys Gly Gly Cys Thr Thr Cys Arg Pro Pro Arg Cys Ser  
 305 310 315

<210> 1627

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1627

Met Ser Ser Asp Phe Leu Cys Phe Phe Phe Lys Leu Cys Asn Gln Met  
 1 5 10 15  
 Ile Leu Cys Phe Phe Phe Arg Gly Ala Glu Tyr Trp Phe Leu Leu Leu  
 20 25 30  
 Val Val Phe Ser Phe Leu Cys His Ser Cys Phe Phe Phe Val Phe Ser

35 40 45  
Val Ser Asn Thr Ile Cys Ile  
50 55

<210> 1628  
<211> 99  
<212> PRT  
<213> Homo sapiens  
<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1628  
Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu  
1 5 10 15  
Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp  
20 25 30  
Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala  
35 40 45  
Arg Ala Leu Ala Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly  
50 55 60  
Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Glu  
65 70 75 80  
Leu Leu Leu Arg Ser Arg Ala Leu Ala Thr Xaa Arg Arg Ser Ala Arg  
85 90 9

Val Thr Gly

<210> 1629  
<211> 214  
<212> PRT  
<213> Homo sapiens  
<220>  
<221> SITE  
<222> (199)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (206)  
<223> Xaa equals any of the naturally occurring L-amino acids  
<220>

<221> SITE  
 <222> (214)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1629  
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg  
   1                  5                  10                  15  
 Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro  
                   20                  25                  30  
 Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp  
           35                  40                  45  
 Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly  
   50                  55                  60  
 Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg  
   65                  70                  75                  80  
 Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro  
                   85                  90                  95  
 Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys  
           100                  105                  110  
 Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp  
           115                  120                  125  
 Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg  
   130                  135                  140  
 Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg  
 145                  150                  155                  160  
 Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser  
           165                  170                  175  
 Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro  
           180                  185                  190  
 Phe Val Gly Gly Thr Ile Xaa Leu Leu Lys Asp Gly Leu Xaa Arg Val  
   195                  200                  205  
 Gly Ser Ala Gln Cys Xaa  
   210

<210> 1630  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 1630  
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg  
   1                  5                  10                  15



Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Ser Ala Cys Ser Pro Thr  
 20 25 30

Ser Arg Leu Asn Ser Leu Arg Ser Leu Ile Pro  
 35 40

<210> 1631  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 1631  
 Met Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala  
 1 5 10 15

Leu Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly  
 20 25 30

Pro Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly  
 35 40

<210> 1632  
 <211> 333  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (227)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1632  
 Met Leu Thr Gly Ile Ala Val Gly Ala Leu Leu Ala Leu Ala Leu Val  
 1 5 10 15

Gly Val Leu Ile Leu Phe Met Phe Arg Arg Leu Arg Gln Phe Arg Gln  
 20 25 30

Ala Gln Pro Thr Pro Gln Tyr Arg Phe Arg Lys Arg Asp Lys Val Met  
 35 40 45

Phe Tyr Gly Arg Lys Ile Met Arg Lys Val Thr Thr Leu Pro Asn Thr

50	55	60
Leu Val Glu Asn Thr Ala Leu Pro Arg Gln Arg Ala Arg Lys Arg Thr 65 70 75 80		
Lys Val Leu Ser Leu Ala Lys Arg Ile Leu Arg Phe Lys Lys Glu Tyr 85 90 95		
Pro Gly Leu Xaa Pro Lys Asp Pro Arg Pro Ser Leu Leu Glu Xaa Asp 100 105 110		
Phe Thr Glu Phe Asp Val Lys Asn Ser His Leu Pro Ser Glu Val Leu 115 120 125		
Tyr Met Leu Lys Asn Val Arg Val Leu Gly His Phe Glu Lys Pro Leu 130 135 140		
Phe Leu Glu Leu Cys Lys His Ile Val Phe Val Gln Leu Gln Glu Gly 145 150 155 160		
Glu His Val Phe Gln Pro Arg Glu Pro Asp Pro Ser Ile Cys Val Val 165 170 175		
Gln Asp Gly Arg Leu Glu Val Cys Ile Gln Asp Thr Asp Gly Thr Glu 180 185 190		
Val Val Val Lys Glu Val Leu Ala Gly Asp Ser Val His Ser Leu Leu 195 200 205		
Ser Ile Leu Asp Ile Ile Thr Gly His Ala Ala Pro Tyr Lys Thr Val 210 215 220		
Ser Val Xaa Ala Ala Ile Pro Ser Thr Ile Leu Arg Leu Pro Ala Ala 225 230 235 240		
Ala Phe His Gly Val Phe Glu Lys Tyr Pro Glu Thr Le Val Arg Val 245 250 255		
Val Gln Ile Ile Met Val Arg Leu Gln Arg Val Thr Phe Leu Ala Leu 260 265 270		
His Asn Tyr Leu Gly Leu Thr Thr Glu Leu Phe Asn Ala Glu Ser Gln 275 280 285		
Ala Ile Pro Leu Val Ser Val Ala Ser Val Ala Ala Gly Lys Ala Lys 290 295 300		
Lys Gln Val Phe Tyr Gly Glu Glu Glu Arg Leu Lys Lys Pro Pro Arg 305 310 315 320		
Leu Gln Glu Ser Cys Asp Ser Asp His Gly Gly Gly Arg 325 330		

<210> 1633  
<211> 365

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<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (201)
<223> Xaa equals any of the naturally occurring amino acids

<400> 1633
Met Phe Val Gly Leu Met Ala Phe Leu Leu Ser Phe Tyr Leu Ile Phe
  1           5           10           15

Thr Asn Glu Gly Arg Ala Leu Lys Thr Ala Thr Ser Leu Ala Glu Gly
          20           25           30

Leu Ser Leu Val Val Ser Pro Asp Ser Ile His Ser Val Ala Pro Glu
          35           40           45

Asn Glu Gly Arg Leu Val His Ile Ile Gly Ala Leu Arg Thr Ser Lys
          50           55           60

Leu Leu Ser Asp Pro Asn Tyr Gly Val His Leu Pro Ala Val Lys Leu
          65           70           75           80

Arg Arg His Val Glu Met Tyr Gln Trp Val Glu Thr Glu Glu Ser Arg
          85           90           95

Glu Tyr Thr Glu Asp Gly Gln Val Lys Lys Glu Thr Arg Tyr Ser Tyr
          100          105          110

Asn Thr Glu Trp Arg Ser Glu Ile Ile Asn Ser Lys Asn Phe Asp Arg
          115          120          / 125

Glu Ile Gly His Lys Asn Pro Ser Ala Met Ala Val Glu Ser Phe Xaa
          130          135          140

Ala Thr Ala Pro Phe Val Gln Ile Gly Arg Phe Phe Leu Ser Ser Gly
          145          150          155          160

Leu Ile Asp Lys Val Asp Asn Phe Lys Ser Leu Ser Leu Ser Lys Leu
          165          170          175

Glu Asp Pro His Val Asp Ile Ile Arg Arg Gly Asp Phe Phe Tyr His
          180          185          190

Ser Glu Asn Pro Lys Tyr Pro Glu Xaa Gly Asp Leu Arg Val Ser Phe
          195          200          205

Ser Tyr Ala Gly Leu Ser Gly Asp Asp Pro Asp Leu Gly Pro Ala His
          210          215          220

Val Val Thr Val Ile Ala Arg Gln Arg Gly Asp Gln Leu Val Pro Phe

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Thr Gln Leu Asn Val Pro Pro Leu Pro Pro Arg Gly Phe Pro Phe Val  
 100 105 110  
 Pro Pro Ser Arg Phe Phe Ser Ala Ala Ala Ala Pro Aa Ala Pro Pro  
 115 120 125  
 Ile Ala Ala Glu Pro Ala Ala Ala Ala Pro Leu Thr Ala Thr Pro Val  
 130 135 140  
 Ala Ala Glu Pro Ala Ala Arg Gly Pro Val Ala Ala Glu Pro Xaa Gly  
 145 150 155 160  
 Arg Gly His Leu Leu Glu Leu Glu Pro Ala Ala Glu Ala Pro Val Ala  
 165 170 175  
 Ala Glu Pro Ala Ala Glu Ala Pro Val Gly Val Glu Pro Ala Ala Glu  
 180 185 190  
 Glu Pro Ser Pro Ala Glu Pro Ala Thr Ala Lys Pro Ala Ala Pro Glu  
 195 200 205  
 Pro His Pro Ser Pro Ser Leu Glu Gln Ala Asn Gln  
 210 215 220

<210> 1635  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1635  
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly  
 1 5 10 15  
 Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His  
 20 25 30

Ile Cys Ser Gln Arg Asn Pro Pro GlyArg Cys Leu Leu Lys Ala Xaa  
35 40 45

Leu Gln Thr Thr Trp Gly Xaa Pro Asp Xaa Gln Phe Pro Gly Cys Pro  
50 55 60

His Pro Xaa Arg Val Thr Leu Asn Ala Arg Gln Met Gly AsnGly Lys  
65 70 75 80

Glu Lys Lys Ala Ala Asp Leu Lys Leu Lys Phe Pro Gln Lys Arg Phe  
85 90 95

Tyr Leu Ser Ala Phe Ser Glu Arg Ile Lys Ala Phe  
100 105

<210> 1636

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1636

Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly  
1 5 10 15

Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg LeuPro Arg His  
20 25 30

Ile Cys Ser Gln Arg Xaa Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa  
35 40 45

Leu Gln Thr Thr Trp Xaa Xaa Pro Asp Lys Pro Ile Pro Arg Leu Ser  
 50 55 60

Pro Pro Leu Xaa Ser Asp Pro Lys Arg  
 65 70

<210> 1637  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 1637  
 Met Asp Arg Gly Val Met Cys Leu Leu Ala Ser Trp Pro Gly Leu Gly  
 1 5 10 15

Ala Gln Phe Cys Gly Ala Gly Val Cys Pro Leu Arg Val Pro Ser Leu  
 20 25 30

Glu Pro Thr Leu Pro Asn Asp Gly Gly Gly Leu Glu Ala Leu Thr Leu  
 35 40 45

Gly Gly Lys Glu Ala Lys Glu Arg Trp Arg Trp Lys Gly Arg Pro Gly  
 50 55 60

Gln Gly Gly  
 65

<210> 1638  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 1638  
 Met Asp Arg Gly Val Met Cys Leu Leu Ala Ser Trp Pro Gly Leu Gly  
 1 5 10 15

Ala Gln Phe Cys Gly Ala Gly Val Cys Pro Leu Arg Val Pro Ser Leu  
 20 25 30

Glu Pro Thr Leu Pro Asn Asp Gly Gly Gly Leu Glu Ala Leu Thr Leu  
 35 40 45

Gly Gly Lys Glu Ala Lys Glu Arg Trp Arg Trp Lys Gly Arg Pro Gly  
 50 55 60

Gln Gly Gly  
 65

<210> 1639  
 <211> 83

<212> PRT  
<213> Homo sapiens

<400> 1639  
Gly His Val Leu Ala Tyr Ser Ser Trp Pro Ser Leu Ala Pro Gly Leu  
1 5 10 15  
Ser Val Gln Tyr Phe Val Ser Arg Val Glu Val Pro Asn Pro GlyCys  
20 25 30  
Thr Leu Glu Ala Pro Gly Lys Leu Ser Glu Phe Leu Arg Pro Glu Pro  
35 40 45  
His Pro Lys Pro Ile Ser Ser Glu Ser Leu Gly Gly Thr Glu Pro Gly  
50 55 60  
Phe Cys Gln Leu Lys Pro Ala Met Val Thr Ser Val Ser Ser Tyr Thr  
65 70 75 80  
Glu Asn Ser

<210> 1640  
<211> 29  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1640  
Met Tyr Val Trp Val Ser Gly Ala Leu Val Leu Val Leu SerPro His  
1 5 10 15  
Pro Ala Ser Arg Thr Leu Cys Leu Met Xaa Gln Ala Xaa  
20 25

<210> 1641  
<211> 80  
<212> PRT  
<213> Homo sapiens

<400> 1641  
Pro His Cys Ala Ser Arg Ala Val Pro Tyr Pro Pro Gly Pro Ala Ala  
1 5 10 15



Ala Ala Phe Pro Arg Gln Gly Leu Gln Leu Ala Thr Thr Cys Gly His  
20 25 30  
Ser Ser Asp Pro Ala Cys Phe Gly Gln Cys Pro Cys His Leu Cys Ala  
35 40 45  
Asn His Pro Gly Tyr Leu Trp Ser Tyr Arg Val His Leu Ser Pro Gln  
50 55 60  
Pro His Leu His Pro Pro Gln His Leu Leu ProPro His Cys Thr Leu  
65 70 75 80

<210> 1642  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 1642  
Met Phe Val Phe Val Val Val Ala Trp Thr Gly Asn Ser Ala Gly Leu  
1 5 10 15  
Leu Leu Tyr Ala Ser Leu Cys Leu Pro Ala Cys Ala Arg Gly Cys Gln  
20 25 30  
Gly Leu Leu Gly Gln Ser Gly His Pro Phe Leu Gln Gly Ser Leu Gln  
35 40 45  
Gln Leu Ala Cys Pro Trp Trp Gly  
50 55

<210> 1643  
<211> 51  
<212> PRT  
<213> Homo sapiens  
<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1643  
Met Glu Leu Leu Gln Ala Lys Lys Leu Leu Leu Leu Gly Leu Phe  
1 5 10 15  
Val Ser Cys Xaa Ser Asn Ile Arg Lys Thr Glu Pro Cys Phe Gly Leu

20                      25                      30  
 Asp Ser Ile Thr Phe Xaa Asp Pro Lys Lys Lys Cys Leu Ser Asn Leu  
       35                      40                      45  
 Lys Ser Cys  
       50

<210> 1644  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 1644  
 Ala  
   1

<210> 1645  
 <211> 415  
 <212> PRT  
 <213> Homo sapiens

<400> 1645  
 Val Gly Leu Val Ser Met Leu Gly Ile Pro Ile Pro Gly Ala Glu Gly  
   1                      5                      10                      15  
 Ala Pro Val Leu Asn Ser Leu Val Phe Leu Ser Gly Gln Ser Thr Pro  
                     20                      25                      30  
 Thr Gln Lys Gly Val Gly Ile Ala Gly Ala Val Cys Val Ser Ser Lys  
                     35                      40                      45  
 Leu Arg Pro Arg Gly Gln Cys Arg Leu Glu Phe Ser Leu Ala Trp Asp  
       50                      55                      60  
 Met Pro Arg Ile Met Phe Gly Ala Lys Gly Gln Val His Tyr Arg Arg  
   65                      70                      75                      80  
 Tyr Thr Arg Phe Phe Gly Gln Asp Gly Asp Ala Ala Pro Ala Leu Ser  
                     85                      90                      95  
 His Tyr Ala Leu Cys Arg Tyr Ala Glu Trp Glu Glu Arg Ile Ser Ala  
                     100                      105                      110  
 Trp Gln Ser Pro Val Leu Asp Asp Arg Ser Leu Pro Ala Trp Tyr Lys  
                     115                      120                      125  
 Ser Ala Leu Phe Asn Glu Leu Tyr Phe Leu Ala Asp Gly Gly Thr Val  
       130                      135                      140  
 Trp Leu Glu Val Leu Glu Asp Ser Leu Pro Glu Glu Leu Gly Arg Asn  
   145                      150                      155                      160

Met Cys His Leu Arg Pro Thr Leu Arg Asp Tyr Gly Arg Phe Gly Tyr  
 165 170 175  
 Leu Glu Gly Gln Glu Tyr Arg Met Tyr Asn Thr Tyr Asp Val His Phe  
 180 185 190  
 Tyr Ala Ser Phe Ala Leu Ile Met Leu Trp Pro Lys Leu Glu Leu Ser  
 195 200 205  
 Leu Gln Tyr Asp Met Ala Leu Ala Thr Leu Arg Glu Asp Leu Thr Arg  
 210 215 220  
 Arg Arg Tyr Leu Met Ser Gly Val Met Ala Pro Val Lys Arg Arg Asn  
 225 230 235 240  
 Val Ile Pro His Asp Ile Gly Asp Pro Asp Asp Glu Phe Trp Leu Arg  
 245 250 255  
 Val Asn Ala Tyr Leu Ile His Asp Thr Ala Asp Trp Lys Asp Leu Asn  
 260 265 270  
 Leu Lys Phe Val Leu Gln Val Tyr Arg Asp Tyr Tyr Leu Thr Gly Asp  
 275 280 285  
 Gln Asn Phe Leu Lys Asp Met Trp Pro Val Cys Leu Ala Val Met Glu  
 290 295 300  
 Ser Glu Met Lys Phe Asp Lys Asp His Asp Gly Leu Ile Glu Asn Gly  
 305 310 315 320  
 Gly Tyr Ala Asp Gln Thr Tyr Asp Gly Trp Val Thr Thr Gly Pro Ser  
 325 330 335  
 Ala Tyr Cys Gly Gly Leu Trp Leu Ala Ala Val Ala Val Met Val Gln  
 340 345 350  
 Met Ala Ala Leu Cys Gly Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser  
 355 360 365  
 Ile Leu Ser Arg Gly Gln Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly  
 370 375 380  
 Arg Tyr Tyr Asn Tyr Asp Ser Ser Ser Arg Pro Gln Ser Arg Ser Val  
 385 390 395 400  
 Met Ser Asp Gln Cys Ala Gly Gln Trp Phe Leu Lys Ala Cys Gly  
 405 410 415

<210> 1646  
 <211> 201  
 <212> PRT  
 <213> Homo sapiens

<400> 1646  
 Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu

1                      5                      10                      15  
 Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu  
                          20                      25                      30  
 Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu  
                          35                      40                      45  
 Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr  
                          50                      55                      60  
 Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg  
                          65                      70                      75                      80  
 Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu  
                          85                      90                      95  
 Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile  
                          100                      105                      110  
 Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly He Pro Pro Ser Val  
                          115                      120                      125  
 Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile  
                          130                      135                      140  
 Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val  
                          145                      150                      155                      160  
 Gly Met Ala Met Val Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu  
                          165                      170                      175  
 Tyr Arg Lys Ala Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Bu  
                          180                      185                      190  
 Glu Lys Arg Asn Lys Ser Lys Lys Lys  
                          195                      200

<210> 1647 -  
 <211> 203  
 <212> PRT  
 <213> Homo sapiens

<400> 1647  
 Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His LeuLeu Leu Leu Leu  
                          1                      5                      10                      15  
 Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu  
                          20                      25                      30  
 Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val GluPro Pro Glu  
                          35                      40                      45  
 Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr  
                          50                      55                      60

Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg  
 65 70 75 80  
 Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu  
 85 90 95  
 Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile  
 100 105 110  
 Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val  
 115 120 125  
 Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile  
 130 135 140  
 Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val  
 145 150 155 160  
 Gly Met Ala Met Val Pro Pro Ser Trp Ala Ser Leu Gly Ile Thr Tyr  
 165 170 175  
 Thr Glu Arg Pro Ile Asp Pro Lys Ser Pro Lys Arg Ser Ser Arg Lys  
 180 185 190  
 Arg Asn Glu Thr Arg Ala Lys Arg Asn Asn Lys  
 195 200

<210> 1648  
 <211> 313  
 <212> PRT  
 <213> Homo sapiens

<400> 1648  
 Met Ala Gln Leu Glu Gly Tyr Tyr Phe Ser Ala Ala Leu Ser Cys Thr  
 1 5 10 15  
 Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg  
 20 25 30  
 Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr  
 35 40 45  
 Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr  
 50 55 60  
 Leu Pro Gly Leu Tyr Leu Val Ser Ile Gly Val Ile Lys Pro Ala Ile  
 65 70 75 80  
 Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu  
 85 90 95  
 Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr  
 100 105 110

Leu Leu Phe Cys Lys Val Gln Pro Arg Asn Lys Ala Ala Ser Ser Ile  
 115 120 125  
 Gln Arg Val Leu Ser Thr Leu Thr Leu Ala Val Phe Pro Thr Leu Tyr  
 130 135 140  
 Phe Phe Asn Phe Leu Tyr Tyr Thr Glu Ala Gly Ser Met Phe Phe Thr  
 145 150 155 160  
 Leu Phe Ala Tyr Leu Met Cys Leu Tyr Gly Asn His Lys Thr Ser Ala  
 165 170 175  
 Phe Leu Gly Phe Cys Gly Phe Met Phe Arg Gln Thr Asn Ile Ile Trp  
 180 185 190  
 Ala Val Phe Cys Ala Gly Asn Val Ile Ala Gln Lys Leu Thr Glu Ala  
 195 200 205  
 Trp Lys Thr Glu Leu Gln Lys Lys Glu Asp Arg Leu Pro Pro Ile Lys  
 210 215 220  
 Gly Pro Phe Ala Glu Phe Arg Lys Ile Leu Gln Phe Leu Leu Ala Tyr  
 225 230 235 240  
 Ser Met Ser Phe Lys Asn Leu Ser Met Leu Leu Leu Leu Thr Trp Pro  
 245 250 255  
 Tyr Ile Leu Leu Gly Phe Leu Phe Cys Ala Phe Val Val Val Asn Gly  
 260 265 270  
 Gly Ile Val Ile Gly Asp Arg Ser Ser His Glu Ala Cys Leu His Phe  
 275 280 285  
 Pro Gln Leu Phe Tyr Phe Phe Ser Phe Thr Leu Phe Phe Ser Phe Pro  
 290 295 300  
 His Leu Leu Ser Gln Gln Ile Asn Lys  
 305 310

<210> 1649  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1649

Met Ala Gln Leu Glu Gly Tyr Xaa Phe Ser Ala Ala Leu Ser Cys Thr  
1 5 10 15

Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg  
20 25 30

Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr  
35 40 45

Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr  
50 55 60

Leu Pro Gly Leu Tyr Leu Val Ser Xaa Gly Val Xaa Lys Pro Ala Ile  
65 70 75 80

Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu  
85 90 95

Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr  
100 105 110

Leu Leu Phe Cys Lys Tyr Asn Pro Glu Thr Arg Leu Pro Gln Val Ser  
115 120 125

Arg Glu Ser Cys Gln His  
130

<210> 1650

<211> 159

<212> PRT

<213> Homo sapiens

<400> 1650

Met Ala Gly Pro Gly Trp Thr Leu Leu Leu Leu Leu Leu Leu Leu  
1 5 10 15

Leu Leu Gly Ser Met Ala Gly Tyr Gly Pro Gln Lys Lys Leu Asn Leu  
20 25 30

Ser His Lys Gly Ile Gly Glu Pro Cys Gly Arg His Glu Glu Cys Gln  
35 40 45

Ser Asn Cys Cys Thr Ile Asn Ser Leu Ala Pro His Thr Leu Cys Thr  
50 55 60

Pro Lys Thr Ile Phe Leu Gln Cys Leu Pro Trp Arg Lys Pro Asn Gly  
65 70 75 80

Tyr Arg Cys Ser His Asp Ser Glu Cys Gln Ser Ser Cys Cys Val Arg  
85 90 95

Asn Asn Ser Pro Gln Glu Leu Cys Thr Pro Gln Ser Val Phe Leu Gln  
 100 105 110

Cys Val Pro Trp Arg Lys Pro Asn Gly Asp Phe Cys Ser Ser His Gln  
 115 120 125

Glu Cys His Ser Gln Cys Cys Ile Gln Leu Arg Glu Tyr Ser Pro Phe  
 130 135 140

Arg Cys Ile Pro Arg Thr Gly Ile Leu Ala Gln Cys Leu Pro Leu  
 145 150 155

<210> 1651

<211> 121

<212> PRT

<213> Homo sapiens

<400> 1651

Met Met Leu Pro Gln Trp Leu Leu Leu Leu Phe Leu Leu Phe Phe Phe  
 1 5 10 15

Leu Phe Leu Leu Thr Arg Gly Ser Leu Ser Pro Thr Lys Tyr Asn Leu  
 20 25 30

Leu Glu Leu Lys Glu Ser Cys Ile Arg Asn Gln Asp Cys Glu Thr Gly  
 35 40 45

Cys Cys Gln Arg Ala Pro Asp Asn Cys Gu Ser His Cys Ala Glu Lys  
 50 55 60

Gly Ser Glu Gly Ser Leu Cys Gln Thr Gln Val Phe Phe Gly Gln Tyr  
 65 70 75 80

Arg Ala Cys Pro Cys Leu Arg Asn Leu Thr Cys Ile Tyr Ser Lys Asn  
 85 90 95

Glu Lys Trp Leu Ser Ile Ala Tyr Gly Arg Cys Gln Lys Ile Gly Arg  
 100 105 110

Gln Lys Leu Ala Lys Lys Met Phe Phe  
 115 120

<210> 1652

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring amino acids



<400> 1652

Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu  
1 5 10 15  
Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly  
20 25 30  
Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp  
35 40 45  
Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His  
50 55 60  
Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys  
65 70 75 80  
Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu  
85 90 95  
Val Cys Pro Ser Val Arg Leu Xaa Gly Arg Pro Gly Pro Lys Trp Gly  
100 105 110  
Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp  
115 120 125  
Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly  
130 135 140  
Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr  
145 150 155 160  
Leu

<210> 1653

<211> 291

<212> PRT

<213> Homo sapiens

<400> 1653

Met Asp Cys Phe Ile Thr Phe Ser Ile Arg Glu Thr Thr Pro Ser Leu  
1 5 10 15  
Ser Cys Thr Trp Ser Cys Lys Gly Trp Phe Ile Leu Ser Thr Pro Gly  
20 25 30  
Glu Val Phe Gly Tyr Cys Gln Glu Leu Glu Leu Ser Leu His Tyr Leu  
35 40 45  
Leu Leu Pro Tyr Leu Leu Leu Gly Val Asn Leu Phe Phe Phe Thr Leu  
50 55 60  
Thr Cys Gly Thr Asn Pro Gly Ile Ile Thr Lys Aa Asn Glu Leu Leu  
65 70 75 80

Phe Leu His Val Tyr Glu Phe Asp Glu Val Met Phe Pro Lys Asn Val  
                     85                                    90                                    95  
 Arg Cys Ser Thr Cys Asp Leu Arg Lys Pro Ala Arg Ser Lys His Cys  
                     100                                    105                                    110  
 Ser Val Cys Asn Trp Cys Val His Arg Phe Asp His His Cys Val Trp  
                     115                                    120                                    125  
 Val Asn Asn Cys Ile Gly Ala Trp Asn Ile Arg Tyr Phe Leu Ile Tyr  
                     130                                    135                                    140  
 Val Leu Thr Leu Thr Ala Ser Ala Ala Thr Val Ala Ile Val Ser Thr  
                     145                                    150                                    155                                    160  
 Thr Phe Leu Val His Leu Val Val Met Ser Asp Leu Tyr Gln Glu Thr  
                     165                                    170                                    175  
 Tyr Ile Asp Asp Leu Gly His Leu His Val Met Asp Thr Val Phe Leu  
                     180                                    185                                    190  
 Ile Gln Tyr Leu Phe Leu Thr Phe Pro Arg Ile Val Phe Met Leu Gly  
                     195                                    200                                    205  
 Phe Val Val Val Leu Ser Phe Leu Leu Gly Gly Tyr Leu Leu Phe Val  
                     210                                    215                                    220  
 Leu Tyr Leu Ala Ala Thr Asn Gln Thr Thr Asn Glu Trp Tyr Arg Gly  
                     225                                    230                                    235                                    240  
 Asp Trp Ala Trp Cys Gln Arg Cys Pro Leu Val Ala Trp Pro Pro Ser  
                     245                                    250                                    255  
 Ala Glu Pro Gln Val His Arg Asn Ile His Ser His Gly Leu Arg Ser  
                     260                                    265                                    270  
 Asn Leu Gln Glu Ile Phe Leu Pro Ala Phe Pro Cys His Glu Arg Lys  
                     275                                    280                                    285  
 Lys Gln Glu  
                     290

<210> 1654  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<400> 1654  
 Met Leu Phe Leu Phe Ser Met Ala Thr Leu Leu Arg Thr Ser Phe Ser  
                     1                                    5                                    10                                    15  
 Asp Pro Gly Val Ile Pro Arg Ala Leu Pro Asp Glu Ala Ala Phe Ile  
                     20                                    25                                    30  
 Glu Met Glu Ile Glu Ala Thr Asn Gly Ala Val Pro Gln Gly Gln Arg

35	40	45
Pro Pro Pro Arg Ile Lys Asn Phe Gln Ile Asn Asn Gln Ile Val Lys		
50	55	60
Leu Lys Tyr Cys Tyr Thr Cys Lys Ile Phe Arg Pro Pro Arg Ala Ser		
65	70	75
His Cys Ser Ile Cys Asp Asn Cys Val Glu Arg Phe Asp His His Cys		
85	90	95
Pro Trp Val Gly Asn Cys Val Gly Lys Arg Asn Tyr Arg Tyr Phe Tyr		
100	105	110
Leu Phe Ile Leu Ser Leu Ser Leu Leu Thr Ile Tyr Val Phe Ala Phe		
115	120	125
Asn Ile Val Tyr Val Ala Leu Lys Ser Leu Lys Ile Gly Phe Leu Glu		
130	135	140
Thr Leu Lys Gly Asn Ser Trp Asn Cys Ser Arg Ser Pro His Leu Leu		
145	150	155
Leu Tyr Thr Leu Val Arg Arg Gly Thr Asp Trp Ile Ser Tyr Phe Pro		
165	170	175
Arg Gly Ser Gln Pro Asp Asn Gln		
180		

<210> 1655

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1655

Met Lys Ala Ser Gln Cys Cys Cys Cys Leu Ser His Leu Leu Ala Ser
1 5 10 15

Val Leu Leu Leu Leu Leu Leu Pro Glu Leu Ser Gly Xaa Leu Xaa Val
20 25 30

Leu Leu Gln Ala Ala Glu Ala Ala Pro Gly Xaa Gly Pro Pro Asp Pro  
                   35                                  40                                  45  
 Arg Pro Gly His Tyr Arg Arg Cys His Arg Ala Leu Thr Pro Ala Gln  
                   50                                  55                                  60  
 Gln Pro Gly Arg Gly Leu Ala Glu Ala Ala Gly Ala Ala Gly Leu Arg  
   65                                  70                                  75                                  80  
 Gly Arg Gln Trp Gln Gln Pro Cys Gly Arg Ala  
                                   85                                  90

<210> 1656  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1656  
 Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu  
   1                                  5                                  10                                  15  
 Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu  
                   20                                  25                                  30  
 Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu  
                   35                                  40                                  45  
 Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys  
   50                                  55                                  60

Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser ArgLys Pro Leu  
 65 70 75 80  
 Pro Lys Arg Glu Glu His Val Glu Xaa Pro Xaa Asn Ala Xaa Thr Trp  
 85 90 95  
 Xaa Xaa Thr Tyr Leu Phe Val Ser Tyr Asn Lys GlyAsp Trp Phe Thr  
 100 105 110  
 Phe Ser Ser Gln Val Leu Leu Pro Leu Leu  
 115 120

<210> 1657  
 <211> 229  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (206)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1657  
 Met Tyr Lys Leu Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala  
 1 5 10 15  
 Leu Leu Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Ty  
 20 25 30  
 Ala Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu  
 35 40 45  
 Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser Phe  
 50 55 60  
 Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu Leu Leu  
 65 70 75 80  
 Phe Tyr Leu Lys Lys Leu Thr Leu Phe Ser Thr Cys Ser Pro Ala Ala  
 85 90 95  
 Arg Thr Phe Arg Ala Ser Ala Ala Asn Phe Phe Phe Pro Leu Val Leu  
 100 105 110  
 Leu Leu Gly Leu Ala Ile Ser Ser Val Pro Leu Leu Tyr Ser Ile Phe  
 115 120 125  
 Leu Ile Pro Pro Ser Lys Leu Cys Gly Pro Phe Arg Gly Gln Ser Ser  
 130 135 140  
 Ile Trp Ala Gln Ile Pro Glu Ser Ile Ser Ser Leu Pro Glu Thr Thr  
 145 150 155 160  
 Gln Asn Phe Leu Phe Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu



<400> 1659

Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala  
1 5 10 15  
Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn  
20 25 30  
Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly  
35 40 45

<210> 1660

<211> 549

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (398)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1660

Met Gly Asn Ala Cys Ile Pro Leu Lys Arg Ile Ala Tyr Phe Leu Cys  
1 5 10 15  
Leu Leu Ser Ala Leu Leu Leu Thr Glu Gly Lys Lys Pro Ala Lys Pro  
20 25 30  
Lys Cys Pro Ala Val Cys Thr Cys Thr Lys Asp Asn Ala Leu Cys Glu  
35 40 45  
Asn Ala Arg Ser Ile Pro Arg Thr Val Pro Pro Asp Val Ile Ser Leu  
50 55 60  
Ser Phe Val Arg Ser Gly Phe Thr Glu Ile Ser Glu Gly Ser Phe Leu  
65 70 75 80  
Phe Thr Pro Ser Leu Gln Leu Leu Leu Phe Thr Ser Asn Ser Phe Asp  
85 90 95  
Val Ile Ser Asp Asp Ala Phe Ile Gly Leu Pro His Leu Glu Tyr Leu  
100 105 110  
Phe Ile Glu Asn Asn Asn Ile Lys Ser Ile Ser Arg His Thr Phe Arg  
115 120 125  
Gly Leu Lys Xaa Leu Ile His Leu Ser Leu Ala Asn Asn Asn Leu Gln  
130 135 140  
Thr Leu Pro Lys Asp Ile Phe Lys Gly Leu As Ser Leu Thr Asn Val  
145 150 155 160

Asp Leu Arg Gly Asn Ser Phe Asn Cys Asp Cys Lys Leu Lys Trp Leu  
 165 170 175  
 Val Glu Trp Leu Gly His Thr Asn Ala Thr Val Glu Asp Ile Tyr Cys  
 180 185 190  
 Glu Gly Pro Pro Glu Tyr Lys Lys Arg Lys Ile Asn Ser Leu Ser Ser  
 195 200 205  
 Lys Asp Phe Asp Cys Ile Ile Thr Glu Phe Ala Lys Ser Gln Asp Leu  
 210 215 220  
 Pro Tyr Gln Ser Leu Ser Ile Asp Thr Phe Ser Tyr Leu Asn Asp Glu  
 225 230 235 240  
 Tyr Val Val Ile Ala Gln Pro Phe Thr Gly Lys Cys Ile Phe Leu Glu  
 245 250 255  
 Trp Asp His Val Glu Lys Thr Phe Arg Asn Tyr Asp Asn Ile Thr Gly  
 260 265 270  
 Thr Ser Thr Val Val Cys Lys Pro Ile Val Ile Glu Thr Gln Leu Tyr  
 275 280 285  
 Val Ile Val Ala Gln Leu Phe Gly Gly Ser His Ile Tyr Lys Arg Asp  
 290 295 300  
 Ser Phe Ala Asn Lys Phe Ile Lys Ile Gln Asp Ile Glu Ile Leu Lys  
 305 310 315 320  
 Ile Arg Lys Pro Asn Asp Ile Glu Thr Phe Lys Ile Glu Asn Asn Trp  
 325 330 335  
 Tyr Phe Val Val Ala Asp Ser Ser Lys Ala Gly Phe Thr Thr Ile Tyr  
 340 345 350  
 Lys Trp Asn Gly Asn Gly Phe Tyr Ser His Gln Ser Leu His Ala Trp  
 355 360 365  
 Tyr Arg Asp Thr Asp Val Glu Tyr Leu Glu Ile Val Arg Thr Pro Gln  
 370 375 380  
 Thr Leu Arg Thr Pro His Leu Ile Leu Ser Ser Ser Ser Xaa Arg Pro  
 385 390 395 400  
 Val Ile Tyr Gln Trp Asn Lys Ala Thr Gln Leu Phe Thr Asn Gln Thr  
 405 410 415  
 Asp Ile Pro Asn Met Glu Asp Val Tyr Ala Val Lys His Phe Ser Val  
 420 425 430  
 Lys Gly Asp Val Tyr Ile Cys Leu Thr Arg Phe Ile Gly Asp Ser Lys  
 435 440 445  
 Val Met Lys Trp Gly Gly Ser Ser Phe Gln Asp Ile Gln Arg Met Pro  
 450 455 460



Ser Arg Gly Ser Met Val Phe Gln Pro Leu Gln Ile Asn Asn Tyr Gln  
465 470 475 480

Tyr Ala Ile Leu Gly Ser Asp Tyr Ser Phe Thr Gln Val Tyr Asn Trp  
485 490 495

Asp Ala Glu Lys Ala Lys Phe Val Lys Phe Gln Glu Leu Asn Val Gln  
500 505 510

Ala Pro Arg Ser Phe Thr His Val Ser Ile Asn Lys Arg Asn Phe Leu  
515 520 525

Phe Ala Ser Ser Phe Lys Gly Asn Thr Gln Ile Tyr Lys His Val Ile  
530 535 540

Val Asp Leu Ser Ala  
545

<210> 1661  
<211> 66  
<212> PRT  
<213> Homo sapiens

<400> 1661  
Met Gly Asn Ala Cys Ile Pro Leu Lys Arg Ile Ala Tyr Phe Leu Cys  
1 5 10 15

Leu Leu Ser Ala Leu Leu Leu Thr Glu Gly Lys Lys Pro Ala Asn Gln  
20 25 30

Asn Ala Leu Pro Cys Val Leu Val Pro Lys Ile Met Leu Tyr Val Arg  
35 40 45

Met Pro Asp Pro Phe His Ala Pro Phe Leu Leu Met Leu Ser His Tyr  
50 55 60

Pro Leu  
65

<210> 1662  
<211> 56  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (53)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1662  
Met His Arg Leu Trp Ile Gly Pro Ala Phe Phe Leu Met Thr Ser Leu  
1 5 10 15

Ser Val Ser Gly Ala Val Ile Pro Arg Asn Gly Gly Pro Gly Gly Val  
20 25 30  
Ser Ser Gly Pro Cys Leu Leu Gln Leu Leu Cys Gly Gln Ala Gly Ser  
35 40 45  
Ser Thr Ile Arg Xaa Ile Pro Ser  
50 55

<210> 1663

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1663

Met Lys Leu Ala Ser Gly Phe Leu Val Leu Trp Leu Ser Leu Gly Gly  
1 5 10 15

Gly Leu Ala Gln Ser Asp Thr Ser Pro Asp ThrGlu Glu Ser Tyr Ser  
20 25 30

Asp Trp Gly Leu Arg His Leu Arg Gly Ser Phe Glu Ser Val Asn Ser  
35 40 45

Tyr Phe Asp Ser Phe Leu Glu Leu Leu Gly Gly Lys Asn GlyVal Cys  
50 55 60

Gln Tyr Arg Cys Arg Tyr Gly Lys Ala Pro Met Pro Arg Pro Gly Tyr  
65 70 75 80

Lys Pro Gln Glu Pro Asn Gly Cys Gly Ser Tyr Phe Leu Gly Leu Lys  
85 90 95

Val Pro Glu Ser Met Asp Leu Gly Ile Pro Ala Met Thr Lys Cys Cys  
100 105 110

Asn Gln Leu Asp Val Cys Tyr Asp Thr Cys Gly Ala Asn Lys Tyr Arg  
115 120 125

Cys Asp Ala Lys Phe Arg Trp Cys Leu Xaa Ser Ile Cys Ser Asp Leu  
130 135 140

Lys Arg Ser Leu Gly Phe Val Ser Lys Val Glu Ala Cys Asp Ser Leu  
145 150 155 160

Val Asp Thr Val Phe Asn Thr Val Trp Thr Leu Gly Cys Arg Pro Phe  
165 170 175

Met Asn Ser Gln Arg Ala Ala Cys Ile Cys Ala Glu Glu Glu Lys Glu

180 185 190

Glu Leu

<210> 1664  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 1664  
 Leu Gln Glu Phe Gly Thr Ser Gly Thr Ser Ala Asn Thr Thr Ala Val  
 1 5 10 15  
 Ala Leu Asn Ala Pro Ala His Pro Ala Arg Leu Leu Pro Pro Gly Pro  
 20 25 30  
 Ala Val Ala Leu Leu Leu Leu Arg Gly Ser Cys Ser Leu Cys Cys Cys  
 35 40 45  
 His Gln Pro His Lys Ala Ser Cys Lys Ala Met Pro Ser Ala Gly Ser  
 50 55 60  
 Asn Val Pro  
 65

<210> 1665  
 <211> 170  
 <212> PRT  
 <213> Homo sapiens

<400> 1665  
 Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Se  
 1 5 10 15  
 Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile  
 20 25 30  
 Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr  
 35 40 45  
 Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys  
 50 55 60  
 Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu  
 65 70 75 80  
 Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser  
 85 90 95  
 Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr  
 100 105 110

Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp  
 115 120 125  
 Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu  
 130 135 140  
 Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp  
 145 150 155 160  
 Ile Lys Trp Ala Ser Arg Trp Asp Thr Tyr  
 165 170

<210> 1666  
 <211> 151  
 <212> PRT  
 <213> Homo sapiens

<400> 1666  
 His Ala Ser Gly Ala Arg Arg Arg Leu Gln Ala Pro Pro Val Pro His  
 1 5 10 15  
 Asp Pro Gln Leu Pro Ala Gly Leu Arg His Ser Ala Val Leu Tyr Asp  
 20 25 30  
 Pro His Arg His Leu Cys Ser His Ala Trp Asp Ala Val Ala Leu Gln  
 35 40 45  
 Pro Gly Ser Ser His Asp His Ser Leu Leu Pro Leu His Val His Gly  
 50 55 60  
 Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe Lys Arg  
 65 70 75 80  
 Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val Pro Trp  
 85 90 95  
 Cys Gly Phe Trp His Leu Leu Arg Ile Glu Leu Leu His Leu Gly Lys  
 100 105 110  
 Ala Leu Ile Arg Ser Gly Ala Leu Ser His His Gly Gly Ser Ala Val  
 115 120 125  
 His Val Val Arg Asp Leu Pro Ala Pro Arg Leu Leu Gly Leu Leu Leu  
 130 135 140  
 Arg Leu Pro Lys Ala Ala Ile  
 145 150

<210> 1667  
 <211> 166  
 <212> PRT  
 <213> Homo sapiens

<400> 1667

Met Ser Phe Thr Val Ser Met Ala Ile Gly Leu Val Leu Gly Gly Phe  
1 5 10 15  
Ile Trp Ala Val Phe Ile Cys Leu Ser Arg Arg Arg Arg Ala Ser Ala  
20 25 30  
Pro Ile Ser Gln Trp Ser Ser Ser Arg Arg Ser Arg Ser Ser Tyr Thr  
35 40 45  
His Gly Leu Asn Arg Thr Gly Phe Tyr Arg His Ser Gly Cys Glu Arg  
50 55 60  
Arg Ser Asn Leu Ser Leu Ala Ser Leu Thr Phe Gln Arg Gln Ala Ser  
65 70 75 80  
Leu Glu Gln Ala Asn Ser Phe Pro Arg Lys Ser Ser Phe Arg Ala Ser  
85 90 95  
Thr Phe His Pro Phe Leu Gln Cys Pro Pro Leu Pro Val Glu Thr Glu  
100 105 110  
Ser Gln Leu Val Thr Leu Pro Ser Ser Asn Ile Ser Pro Thr Ile Ser  
115 120 125  
Thr Ser His Ser Leu Ser Arg Pro Asp Tyr Trp Ser Ser Asn Ser Leu  
130 135 140  
Arg Val Gly Leu Ser Thr Pro Pro Pro Pro Ala Tyr Glu Ser Ile Ile  
145 150 155 160  
Lys Ala Phe Pro Asp Ser  
165

<210> 1668

<211> 26

<212> PRT

<213> Homo sapiens

<400> 1668

Gly Leu Phe Leu Gly Gln Met Asn Trp Ile Phe Ser Cys Cys Phe Ser  
1 5 10 15  
Asn Asn Val Thr Thr Thr Val Lys LysArg  
20 25

<210> 1669

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1669

Arg Leu Leu Asn Leu Ser Val Pro Met Phe Thr Phe Ile Val Val Lys

1                      5                      10                      15  
 Arg Tyr Ala Thr  
                     20  
  
 <210> 1670  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1670  
 Met Gly Phe His His Val Ser Gln Ala Ala Leu Val Leu Leu Leu Leu  
   1                                      5                                      10                                      15  
  
 Leu Leu Leu Leu Leu Leu Phe Asp Thr Glu Ser Arg Ser Ser Leu Ala  
                     20                                      25                                      30  
  
 Thr Glu Arg Asp Ser Ile Ser Lys Lys Lys Asn Lys Lys Thr Lys Lys  
                     35                                      40                                      45  
  
 Lys Asn Arg Lys Glu Thr Lys Asn Val Val Leu Ile Leu Ile Asn Ser  
                     50                                      55                                      60  
  
 Asn Ser Phe Met Trp Leu Ala Ala Ala Leu  
   65                                      70

<210> 1671  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1671  
 His His Val Ala Gln Ala Leu Pro Pro Ala Gly Ala Pro Arg Gly Arg  
   1                                      5                                      10                                      15  
  
 Pro His Gln Pro His Pro Ala Pro Val Gly Gln Gly Ser Pro Glu Arg  
                     20                                      25                                      30  
  
 Gly

<210> 1672  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1672

Ser Asn Pro Ser His Ile Leu Met Ile Ser Ile Leu Leu Ser His Ala  
1 5 10 15  
Ser Arg Gly Ala Gly Ala Asp Pro Lys Arg Ser Cys Cys Pro Gln Arg  
20 25 30  
Val Gly Ser Arg Gly Arg Ala Xaa Val Arg Leu Thr Arg Leu Cys Ser  
35 40 45  
Gln Pro Ser Pro His  
50

<210> 1673

<211> 163

<212> PRT

<213> Homo sapiens

<400> 1673

Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys  
1 5 10 15  
Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala  
20 25 30  
Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala  
35 40 45  
Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly Phe Gly  
50 55 60  
Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln Ser Asn  
65 70 75 80  
Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu Gly Cys  
85 90 95  
Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser Leu Val  
100 105 110  
Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe Val Leu  
115 120 125  
Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn Val Ser  
130 135 140  
Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly Lys Ala  
145 150 155 160  
Lys Arg His

<210> 1674

<211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1674  
 Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys  
           1                  5                  10                  15  
 Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala  
                   20                  25                  30  
 Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala  
                   35                  40                  45  
 Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Leu Pro Xaa Asp Thr Leu  
           50                  55                  60  
 Gly Leu Cys Xaa Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe  
           65                  70                  75                  80  
 Cys Leu Pro Gly Leu Asp Pro Val Leu Arg Ala Leu  
                   85                  90

<210> 1675  
 <211> 236  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1675  
 Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu  
           1                  5                  10                  15  
 Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln  
                   20                  25                  30  
 Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val  
           35                  40                  45  
 Val Leu Pro Ala Trp Tyr Xaa Leu His Gly Glu Val Ser Ser Ser Gln  
           50                  55                  60



Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys  
 65 70 75 80  
 Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro  
 85 90 95  
 Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg  
 100 105 110  
 Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val  
 115 120 125  
 Asn Val Gln Asp Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr  
 130 135 140  
 Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu  
 145 150 155 160  
 Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser  
 165 170 175  
 Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro  
 180 185 190  
 Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser  
 195 200 205  
 Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys  
 210 215 220  
 Lys Ala His Asn Glu Val Gly Thr Ala Asn Val Met  
 225 230 235

<210> 1676

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1676

Met Thr Ser Tyr Ile Leu Ile Ser Phe Val Leu Leu Ile Gly Val Gly  
 1 5 10 15  
 Cys Ile Glu Lys Asp Gln Ser Cys Pro Val Phe Gly Gly Arg Lys Arg  
 20 25 30  
 Leu His Leu Leu Phe Val Gly Gly Gln Leu Arg Gln Val Xaa Leu Gly  
 35 40 45  
 Ala Pro Arg Pro Pro Gly Gly Gln Asp Pro Ser His Gln Arg Leu Gly

50                      55                      60  
 Arg Gly Glu Leu Pro Leu Val Arg Gln His His Arg Asp Leu His His  
 65                      70                      75                      80  
 Arg Gly Pro His Gln Glu Gly Leu Gln Val His His Gln His Glu  
                     85                      90                      95

<210> 1677  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1677  
 Xaa Pro Ser Trp Trp Gly Pro Arg Trp Cys Arg Ser Ser Cys Gly Val  
 1                      5                      10                      15  
 Ala Arg Thr Arg Val Val His Pro Val Arg Val Ala Asp Gly Leu Asp  
                     20                      25                      30  
 Leu Ala Leu Leu Glu Val Gly Glu Leu Pro Ala Gly His Ala Leu Leu  
                     35                      40                      45  
 Ala Val Leu Val Val Glu Leu His Val Ala Ala Arg Leu Asp Pro Ala  
                     50                      55                      60  
 Asn Tyr Pro Ser Leu Leu Leu Gly Asp Gly Arg His Asp His Leu Gly  
 65                      70                      75                      80  
 Arg Gly Pro Glu Val Gly Cys Pro Val Ala Glu His His Ala Gly Gly  
                     85                      90                      95  
 Leu Ile Asp Ala Ser Gly Asp Gly Val Asp Gly Gly Phe His Ile Asn  
                     100                      105                      110  
 His Arg Asp Pro Phe Pro Glu Asp Ser Gly Phe Ala Ser Asp Ala Leu  
                     115                      120                      125  
 Asn Thr Ala His Gly Ile Gln Glu Arg Ser Asp Leu Gln Gly Arg Pro  
                     130                      135                      140  
 Ala Val Thr Glu Lys Thr Arg His  
 145                      150

<210> 1678  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 1678

Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val  
1 5 10

<210> 1679

<211> 302

<212> PRT

<213> Homo sapiens

<400> 1679

Met Ala Arg Ala Arg Gly Ser Pro Cys Pro Pro Leu Pro Pro Gly Arg  
1 5 10 15  
Met Ser Trp Pro His Gly Ala Leu Leu Phe Leu Trp Leu Phe Ser Pro  
20 25 30  
Pro Leu Gly Ala Gly Gly Gly Gly Val Ala Val Thr Ser Ala Ala Gly  
35 40 45  
Gly Gly Ser Pro Pro Ala Thr Ser Cys Pro Val Ala Cys Ser Cys Ser  
50 55 60  
Asn Gln Ala Ser Arg Val Ile Cys Thr Arg Arg Asp Leu Ala Glu Val  
65 70 75 80  
Pro Ala Ser Ile Pro Val Asn Thr Arg Tyr Leu Asn Leu Gln Glu Asn  
85 90 95  
Gly Ile Gln Val Ile Arg Thr Asp Thr Phe Lys His Leu Arg His Leu  
100 105 110  
Glu Ile Leu Gln Leu Ser Lys Asn Leu Val Arg Lys Ile Glu Val Gly  
115 120 125  
Ala Phe Asn Gly Leu Pro Ser Leu Asn Thr Leu Glu Leu Phe Asp Asn  
130 135 140  
Arg Leu Thr Thr Val Pro Thr Gln Ala Phe Glu Tyr Leu Ser Lys Leu  
145 150 155 160  
Arg Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser Tyr  
165 170 175  
Ala Phe Asn Arg Val Pro Ser Leu Arg Arg Leu Asp Leu Gly Glu Leu  
180 185 190  
Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn  
195 200 205  
Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn  
210 215 220  
Leu Thr Ala Leu Val Arg Leu Glu Glu Leu Glu Leu Ser Gly Asn Arg  
225 230 235 240

Leu Asp Leu Ile Arg Pro Gly Ser Phe Gln Gly Leu Thr Ser Leu Arg  
                           245                          250                          255  
 Lys Leu Trp Leu Met His Ala Gln Val Ala Thr Ile Glu Arg Asn Ala  
                           260                          265                          270  
 Phe Asp Asp Leu Lys Ser Leu Glu Glu Leu Asn Leu Ser His Asn Asn  
                           275                          280                          285  
 Leu Met Ser Leu Pro His Asp Leu Phe Thr Pro Leu His Arg  
                           290                          295                          300

<210> 1680

<211> 224

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1680

Met Ala Arg Ala Arg Gly Ser Pro Cys Pro Pro Leu Pro Pro Gly Arg  
   1                          5                          10                          15  
 Met Ser Trp Pro His Gly Ala Leu Leu Phe Leu Trp Leu Phe Ser Pro  
                           20                          25                          30  
 Pro Leu Gly Ala Gly Gly Gly Gly Val Ala Val Thr Ser Ala Ala Gly  
                           35                          40                          45  
 Gly Gly Ser Pro Pro Ala Thr Ser Cys Pro Val Ala Cys Ser Cys Ser  
                           50                          55                          60  
 Asn Gln Ala Ser Arg Val Ile Cys Thr Arg Arg Xaa Leu Ala Glu Val  
   65                          70                          75                          80  
 Pro Ala Ser Ile Pro Val Asn Thr Arg Tyr Leu Asn Leu Glu Glu Asn  
                           85                          90                          95  
 Gly Ile Gln Val Ile Arg Thr Asp Thr Phe Lys His Leu Arg His Leu  
                           100                          105                          110  
 Glu Ile Leu Gln Leu Ser Lys Asn Leu Val Arg Lys Ile Glu Val Gly  
                           115                          120                          125  
 Ala Phe Asn Gly Leu Pro Ser Leu Asn Thr Leu Glu Leu Phe Asp Asn  
                           130                          135                          140  
 Arg Leu Thr Thr Val Pro Thr Gln Ala Phe Glu Tyr Leu Ser Lys Leu  
   145                          150                          155                          160  
 Arg Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser Tyr

	165		170		175
Ala Phe Asn Arg Val Pro Ser Leu Arg Arg Leu Asp Leu Gly Glu Leu					
	180		185		190
Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn					
	195		200		205
Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn					
	210		215		220

<210> 1681  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 1681
Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
1 5 10 15
Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
20 25 30
Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
35 40 45
Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
50 55 60
Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
65 70 75 80
Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
85 90 95
Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
100 105

<210> 1682  
 <211> 130  
 <212> PRT  
 <213> Homo sapiens

<400> 1682
Ser Thr Cys Cys Gly Trp Gly Pro Leu Gly His Ser Arg Val Arg Gly
1 5 10 15
Cys His Cys His Leu Gly His Val Gly Arg His Gln His Phe Val Val
20 25 30

Thr Asn Ser Thr Val Thr Asn Ile Phe Gly Gln Ile Pro Phe Tyr Thr  
           35                          40                          45  
 Ser Arg Gln Leu Leu Val Cys Asn Pro Thr Gly Gln Arg Glu Gly Pro  
           50                          55                          60  
 Val Thr Trp Leu Ser His Cys Pro Ala Pro Gln Met Val Leu Gly Leu  
       65                          70                          75                          80  
 Leu Phe Ser Leu Gly Pro Ala Asn Thr Thr Val Phe Thr Ser Ala His  
                           85                          90                          95  
 Trp Leu Ser Ala Val Val Pro Gly Ser Gln Trp His Val Ser Pro Arg  
                           100                          105                          110  
 Ser Ser Leu Ile Pro Gln His Thr Pro Lys Gly Ser Val Ala Asn Thr  
           115                          120                          125  
 Leu Asn  
       130

<210> 1683  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1683  
 Lys Ala Pro Ser Ser His Pro Gly Leu Thr Cys Val Ser Leu Ser Arg  
       1                          5                          10                          15  
 Leu Gln Xaa Ser Leu Ser Leu Cys Phe Pro Ser Gly Pro Cys Trp Ala  
           20                          25                          30  
 Gly Leu Leu Ser Ser Leu Ala Leu Ala Gly Gly Ala Pro Gly Ala Leu  
           35                          40                          45  
 Pro Pro Trp Gln Pro Gly Gln Asp Ser Lys Met Arg Thr Ala Glu Leu  
           50                          55                          60  
 Val Gly Gly Ser His Gly Pro Ala Xaa Gly Pro Gly Glu Ala Glu Pro  
       65                          70                          75                          80  
 Glu Pro Thr Ala Val Val Leu Trp Thr Val Asp Pro Glu Gly Gly Leu  
                           85                          90                          95

Gly Gln Val Pro Ala Glu Gly Pro Gly Gly Leu Cys Val Pro Leu Gly  
 100 105 110

Pro Gly Ala Leu Val Thr Trp Thr Pro Gly  
 115 120

<210> 1684

<211> 223

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1684

Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala Ala Tyr  
 1 5 10 15

Leu Ser Leu Pro Ser Asn Asn Leu Ser His SerLeu Trp Glu Gln Leu  
 20 25 30

Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His  
 35 40 45

Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser AspIle Leu  
 50 55 60

Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu  
 65 70 75 80

Asn Leu Val Gln Lys Trp Gln Val Leu Ser Glu Val Leu Ser Cys Ser  
 85 90 95

Glu Lys Leu Val Cys His Leu Gly Arg Leu Gly Ser Val Ser Glu Ala  
 100 105 110

Lys Ala Phe Cys Leu Glu Ala Leu Lys Leu Thr Thr Lys Leu Gln Ile  
 115 120 125

Pro Arg Gln Xaa Ala Leu Phe Leu Val Leu Lys Gly Glu Leu Glu Leu  
 130 135 140

Ala Arg Asn Asp Ile Asp Leu Cys Gln Ser Asp Leu Gln Gln Val Leu  
 145 150 155 160

Phe Leu Leu Glu Ser Cys Thr Glu Phe Gly Gly Val Thr Gln His Leu  
 165 170 175

Asp Ser Val Lys Lys Val His Leu Gln Lys Gly Lys Gln Gln Ala Gln  
 180 185 190

Val Pro Cys Pro Pro Gln Leu Pro Glu Glu Glu Leu Phe Leu Arg Gly  
 195 200 205

Pro Ala Leu Glu Leu Val Pro Leu Trp Pro Arg Ser Leu Ala Pro  
 210 215 220

<210> 1685  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 1685  
 Ala Trp Phe Leu Val Lys Pro Glu  
 1 5

<210> 1686  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 1686  
 Ile Val Leu Lys Tyr Ile Met Ala Gly Cys Pro Leu Phe Leu Gly Asn  
 1 5 10 15  
 Leu Trp Asp Val Thr Asp Arg Asp Ile Asp Arg Tyr Thr Glu Ala Leu  
 20 25 30  
 Leu Gln Gly Trp Leu Gly Ser Arg Pro Arg Ala Pro Leu Leu Tyr Tyr  
 35 40 45  
 Val Asn Gln Ala Arg Gln Ala Pro Arg Leu Lys Tyr Leu Ile Gly Ala  
 50 55 60  
 Ala Pro Ile Pro Met Ala Cys Leu Ser Leu Cys Gly Asn Pro Met Glu  
 65 70 75 80  
 Leu Ser Tyr

<210> 1687  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<400> 1687  
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile  
 1 5 10 15  
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp  
 20 25 30  
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln  
 35 40 45



Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser Asp Asp Ser Ser  
 50 55 60  
 Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp  
 65 70 75 80  
 Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val  
 85 90 95  
 Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Leu Gln Glu Glu  
 100 105 110  
 Ser Phe Gln Ser Arg Leu Gly His Tyr Ser Leu Ser Gln Phe Ile Glu  
 115 120 125  
 Ser Gly Pro Glu Met Ser Arg Gly Ser Ile Gln Ser Arg Thr Gly  
 130 135 140

<210> 1688  
 <211> 293  
 <212> PRT  
 <213> Homo sapiens

<400> 1688  
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile  
 1 5 10 15  
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp  
 20 25 30  
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln  
 35 40 45  
 Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser Asp Asp Ser Ser  
 50 55 60  
 Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp  
 65 70 75 80  
 Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val  
 85 90 95  
 Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Cys Arg Lys Lys  
 100 105 110  
 Val Phe Arg Val Arg Leu Gly His Tyr Ser Leu Ser Pro Val Tyr Glu  
 115 120 125  
 Ser Gly Gln Gln Met Phe Gln Gly Val Lys Ser Ile Pro His Pro Gly  
 130 135 140  
 Tyr Ser His Pro Gly His Ser Asn Asp Leu Met Leu Ile Lys Leu Asn  
 145 150 155 160

Arg Arg Ile Arg Pro Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser  
 165 170 175  
 His Cys Pro Ser Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr  
 180 185 190  
 Thr Lys Ser Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn  
 195 200 205  
 Ile Ser Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln  
 210 215 220  
 Ile Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser  
 225 230 235 240  
 Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu Gln  
 245 250 255  
 Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn Arg Pro  
 260 265 270  
 Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile Gln Glu Thr  
 275 280 285  
 Ile Gln Ala Asn Ser  
 290

<210> 1689  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 1689  
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile  
 1 5 10 15  
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp  
 20 25 30  
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Arg  
 35 40 45  
 Thr Trp Glu Leu Gly Pro Gly Lys Thr Pro Gly Arg Met Th Ala Ala  
 50 55 60  
 Ala Ala Ser Ser Met Asp Pro Thr Ala Ile Cys Thr Pro Ser Arg Gly  
 65 70 75 80  
 Arg Pro Arg Cys Cys  
 85

<210> 1690  
 <211> 293

<212> PRT

<213> Homo sapiens

<400> 1690

Met	Ala	Thr	Ala	Arg	Pro	Pro	Trp	Met	Trp	Val	Leu	Cys	Ala	Leu	Ile	
1				5					10					15		
Thr	Ala	Leu	Leu	Leu	Gly	Val	Thr	Glu	His	Val	Leu	Ala	Asn	Asn	Asp	
			20					25					30			
Val	Ser	Cys	Asp	His	Pro	Ser	Asn	Thr	Val	Pro	Ser	Gly	Ser	Asn	Gln	
		35					40					45				
Asp	Leu	Gly	Ala	Gly	Ala	Gly	Glu	Asp	Ala	Arg	Ser	Asp	Asp	Ser	Ser	
	50					55					60					
Ser	Arg	Ile	Ile	Asn	Gly	Ser	Asp	Cys	Asp	Met	His	Thr	Gln	Pro	Trp	
65					70					75					80	
Gln	Ala	Ala	Leu	Leu	Leu	Arg	Pro	Asn	Gln	Leu	Tyr	Cys	Gly	Ala	Val	
				85					90					95		
Leu	Val	His	Pro	Gln	Trp	Leu	Leu	Thr	Ala	Ala	His	Cys	Arg	Lys	Lys	
			100					105					110			
Val	Phe	Arg	Val	Arg	Leu	Gly	His	Tyr	Ser	Leu	Ser	Pro	Val	Tyr	Glu	
		115					120					125				
Ser	Gly	Gln	Gln	Met	Phe	Gln	Gly	Val	Lys	Ser	Ile	Pro	His	Pro	Gly	
	130					135					140					
Tyr	Ser	His	Pro	Gly	His	Ser	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asn	
145					150					155					160	
Arg	Arg	Ile	Arg	Pro	Thr	Lys	Asp	Val	Arg	Pro	Ile	Asn	Val	Ser	Ser	
				165					170						175	
His	Cys	Pro	Ser	Ala	Gly	Thr	Lys	Cys	Leu	Val	Ser	Gly	Trp	Gly	Thr	
			180					185					190			
Thr	Lys	Ser	Pro	Gln	Val	His	Phe	Pro	Lys	Val	Leu	Gln	Cys	Leu	Asn	
		195					200					205				
Ile	Ser	Val	Leu	Ser	Gln	Lys	Arg	Cys	Glu	Asp	Ala	Tyr	Pro	Arg	Gln	
	210					215					220					
Ile	Asp	Asp	Thr	Met	Phe	Cys	Ala	Gly	Asp	Lys	Ala	Gly	Arg	Asp	Ser	
225					230					235					240	
Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Val	Val	Cys	Asn	Gly	Ser	Leu	Gln	
				245					250					255		
Gly	Leu	Val	Ser	Trp	Gly	Asp	Tyr	Pro	Cys	Ala	Arg	Pro	Asn	Arg	Pro	
			260					265					270			
Gly	Val	Tyr	Thr	Asn	Leu	Cys	Lys	Phe	Thr	Lys	Trp	Ile	Gln	Glu	Thr	
		275					280					285				

Ile Gln Ala Asn Ser  
290

<210> 1691  
<211> 293  
<212> PRT  
<213> Homo sapiens

<400> 1691  
Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile  
1 5 10 15  
Thr Ala Leu Leu Leu Gly Val Thr Glu HisVal Leu Ala Asn Asn Asp  
20 25 30  
Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln  
35 40 45  
Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser AspAsp Ser Ser  
50 55 60  
Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp  
65 70 75 80  
Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly AlaVal  
85 90 95  
Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Cys Arg Lys Lys  
100 105 110  
Val Phe Arg Val Arg Leu Gly His Tyr Ser Leu Ser Pro Val Tyr Glu  
115 120 125  
Ser Gly Gln Gln Met Phe Gln Gly Val Lys Ser Ile Pro His Pro Gly  
130 135 140  
Tyr Ser His Pro Gly His Ser Asn Asp Leu Met Leu Ile Lys Leu Asn  
145 150 155 160  
Arg Arg Ile Arg Pro Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser  
165 170 175  
His Cys Pro Ser Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr  
180 185 190  
Thr Lys Ser Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn  
195 200 205  
Ile Ser Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln  
210 215 220  
Ile Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser  
225 230 235 240

Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu Gln  
                           245                          250                          255  
 Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn Arg Pro  
                           260                          265                          270  
 Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile Gln Glu Thr  
                           275                          280                          285  
 Ile Gln Ala Asn Ser  
                           290

<210> 1692  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1692  
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile  
   1                          5                          10                          15  
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp  
                           20                          25                          30  
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln  
                           35                          40                          45  
 Asp Leu Gly Ala Gly Ala Gly Arg Arg Pro Val Gly  
                           50                          55                          60

<210> 1693  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens

<400> 1693  
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln  
   1                          5                          10                          15  
 Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg  
                           20                          25                          30  
 Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile  
                           35                          40                          45  
 Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser  
                           50                          55                          60  
 Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp  
   65                          70                          75                          80  
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr  
                           85                          90                          95

Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn  
 100 105 110  
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser  
 115 120 125  
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala  
 130 135 140  
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu  
 145 150 155 160  
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys  
 165 170 175  
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr  
 180 185 190  
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His  
 195 200 205  
 Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val  
 210 215 220  
 Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile  
 225 230 235 240  
 Gly Tyr Gln

<210> 1694  
 <211> 154  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (150)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1694  
 Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val  
 1 5 10 15  
 Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln  
 20 25 30  
 Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg  
 35 40 45  
 Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile  
 50 55 60  
 Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu

65		70		75		80									
Lys	Lys	Tyr	Arg	Thr	Glu	Ala	Glu	Met	Phe	Gly	Trp	Ser	Phe	Val	Phe
				85					90					95	
Glu	Asp	Phe	Val	Ser	Asp	Glu	Leu	Arg	Asn	Lys	Ala	Thr	Gln	Pro	Met
			100					105					110		
Lys	Ser	Val	Leu	Trp	Trp	Leu	Pro	Val	Glu	Lys	Ala	Phe	Trp	Arg	Gln
		115					120						125		
Pro	Ala	Gly	Pro	Gly	Ser	Gly	Ile	Arg	Glu	Arg	Leu	Glu	His	Pro	Val
	130					135					140				
Leu	His	Val	Ser	Trp	Xaa	Asp	Ala	Arg	Ala						
145						150									

<210> 1695  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1695
Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu
1 5 10 15
Leu Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu
20 25 30
Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu
35 40 45
Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe
50 55 60
His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val
65 70 75 80
Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg
85 90 95
Arg Leu Gln Ala Gln Ala Xaa Arg Arg Gly Tyr Leu Pro Arg Ser Cys
100 105 110
Met Ser Ser Met Ala Phe Phe Leu
115 120

<210> 1696

<211> 269  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (236)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (257)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1696  
 Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu  
 1 5 10 15  
 Leu Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu  
 20 25 30  
 Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu  
 35 40 45  
 Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe  
 50 55 60  
 His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val  
 65 70 75 80  
 Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg  
 85 90 95  
 Arg Leu Gln Ala Gln Ala Ala Arg Arg Gly Tyr Leu Thr Lys Ile Leu  
 100 105 110  
 His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys Met Ser Gly  
 115 120 125  
 Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val Asp Tyr Ile Glu  
 130 135 140  
 Glu Asp Ser Ser Val Phe Ala Gln Ser Ile Pro Trp Asn Leu Glu Arg  
 145 150 155 160  
 Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro Asp Gly  
 165 170 175  
 Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser Ile Gln Ser Asp  
 180 185 190  
 His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp Phe Glu Asn Val  
 195 200 205  
 Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala Ser Lys Cys Asp  
 210 215 220



Ser His Gly Pro Thr Trp Gln Gly Trp Ser Ala Xaa Gly Met Pro Ala  
 225 230 235 240

Trp Pro Arg Val Pro Ala Cys Ala Ala CysAla Cys Phe Pro Lys Lys  
 245 250 255

Xaa Pro Leu Leu Gly Gly Pro Pro Gln Lys Lys Gly Gly  
 260 265

<210> 1697  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 1697  
 Gly Trp Cys Ser Arg Arg Asp Ser Cys Trp Pro Ser Pro Pro Thr Met  
 1 5 10 15

Pro

<210> 1698  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 1698  
 Thr Trp Trp Pro Pro Cys Pro Pro Ala Pro Met Gly Gln Val Gly Ser  
 1 5 10 15

Cys Phe Ala Gly Leu Cys Gly Gln His Thr Arg Gly Leu His Gly Trp  
 20 25 30

Pro Gln Pro Ser Pro Ala Ala Pro Gln Met Arg Ser Cys  
 35 40 45

<210> 1699  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1699  
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro  
 1 5 10 15

Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu  
 20 25 30

Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala  
 35 40 45

Trp Phe Ile Ala Gly Ile Phe Leu Leu  
 50 55

<210> 1700  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1700  
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr  
 1 5 10 15  
 Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro  
 20 25 30  
 Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr  
 35 40 45  
 Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser  
 50 55 60  
 Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Ile  
 65 70 75 80  
 Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Xaa Arg Arg Asp Ile  
 85 90 95  
 Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met  
 100 105

<210> 1701  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 1701  
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr  
 1 5 10 15  
 Ala Val Leu Thr Trp Ala Gln Ser Asn Thr Met Asp Ala Asn Leu Ser  
 20 25 30  
 Phe Val Cys Ser Cys  
 35

<210> 1702

<211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 1702  
 Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala IleHis Ala Glu Leu  
   1                  5                  10                  15  
 Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg  
                   20                  25                  30  
 Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr AsnGlu Glu Tyr  
           35                  40                  45  
 Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg  
       50                  55                  60  
 Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg  
   65                  70                  75                  80  
 Tyr His Ser Gly Leu Trp Leu Gln Thr Leu Gln Lys Ile Thr Pro Phe  
                   85                  90                  95  
 Leu Leu Leu Arg Cys Asn Gln Pro  
           100

<210> 1703  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1703  
 Ala Xaa Pro Ser Ser Gly Ala Pro Phe Leu Leu Leu Leu Phe Lys  
   1                  5                  10                  15  
 Leu Trp Leu Val Val Pro Gly Ser Ser Thr Asp Ile Ser Xaa Asp Trp  
           20                  25                  30  
 Glu Lys Asp Phe Xaa Leu Asp Met Thr Glu Glu Glu Val Gln Met Ala  
       35                  40                  45

Leu Ser Lys Val Asp Ala Ser Gly Glu Val Ser Gly Pro Ty Gly Ser  
           50                          55                          60  
 Glu Gly Ser Glu Pro Asn Gly Pro Gly Cys Glu Ser Ser Pro Gln Pro  
           65                          70                          75                          80  
 Ala Gln Leu Ser Pro Gln Glu Gly Pro Cys Ser Cys Leu Arg  
                           85                          90

<210> 1704  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 1704  
 Met Leu Ser Ile Ile Pro Asn Asp Arg Leu Phe Ile Asn Leu Ile Phe  
           1                          5                          10                          15  
 Leu Ser Asn Phe Leu Pro Ser Val Leu Trp Glu Pro Ala Gly Gln Met  
                           20                          25                          30  
 Trp Tyr Thr His Val Arg Tyr Pro Ser Gly Arg Leu Leu Ser Leu  
           35                          40                          45

<210> 1705  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1705  
 Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile  
           1                          5                          10                          15  
 Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val  
                           20                          25                          30  
 Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe  
           35                          40                          45  
 Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu  
           50                          55                          60  
 Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu  
           65                          70                          75                          80

<210> 1706  
 <211> 47

<212> PRT  
<213> Homo sapiens

<400> 1706  
Ile Leu Lys Ser Glu Pro Lys LeuVal Ser Phe Ile Asn Ile Leu Gly  
1 5 10 15  
Lys Glu Glu Arg Lys Lys Glu Gly Gly Arg Glu Arg Lys Lys Glu Arg  
20 25 30  
Lys Lys Glu Arg Lys Lys Glu Arg LysLys Lys Lys Lys Asn Ser  
35 40 45

<210> 1707  
<211> 142  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (90)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1707  
Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys  
1 5 10 15  
Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val  
20 25 30  
Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly  
35 40 45  
Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val  
50 55 60  
His Asn Phe Gln Xaa Arg Pro Pro Ser Gly Arg Xaa Leu Ser Pro Gln  
65 70 75 80  
Ser Ala Tyr Pro Arg Leu Pro Gly Pro Xaa Phe Pro His Leu His Asn

				85						90					95
Gly	Gly	Asp	His	Pro	Cys	Pro	Ala	Gly	Cys	Arg	Xaa	Gly	Cys	Glu	Ser
			100					105					110		
Ser	Ala	Trp	Met	Gln	Pro	Gly	Gly	Ser	His	Arg	Ala	Ala	Phe	Thr	Gly
			115				120					125			
Leu	Ala	Leu	Pro	Trp	Ala	Gly	Gly	Arg	Pro	His	Pro	Lys	Arg		
	130					135					140				

<210> 1708  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 1708  
 Met Ala Lys Arg Thr Phe Ser Asn Leu Glu Thr Phe Leu Ile Phe Leu  
 1 5 10 15  
 Leu Val Met Met Ser Ala Ile Thr Val Ala Leu Leu Ser Leu Leu Phe  
 20 25 30  
 Ile Thr Ser Gly Thr Ile Glu Asn His Lys Asp Leu Gly Gly His Phe  
 35 40 45  
 Phe Ser Thr Thr Gln Ser Pro Pro Ala Thr Gln Gly Ser Thr Ala Ala  
 50 55 60  
 Gln Arg Ser Thr Ala Thr Gln His Ser Thr Ala Thr Gln Ser Ser Asn  
 65 70 75 80  
 Ser Gln Leu Lys Leu Leu Gln Cys Leu  
 85

<210> 1709  
 <211> 486  
 <212> PRT  
 <213> Homo sapiens

<400> 1709  
 Met Gln Pro Ser Gly Leu Glu Gly Pro Gly Thr Phe Gly Arg Trp Pro  
 1 5 10 15  
 Leu Leu Ser Leu Leu Leu Leu Leu Leu Leu Gln Pro Val Thr Cys  
 20 25 30  
 Ala Tyr Thr Thr Pro Gly Pro Pro Arg Ala Leu Thr Thr Leu Gly Ala  
 35 40 45  
 Pro Arg Ala His Thr Met Pro Gly Thr Tyr Ala Pro Ser Thr Thr Leu  
 50 55 60

Ser Ser Pro Ser Thr Gln Gly Leu Gln Glu Gln Ala Arg Ala Leu Met  
 65 70 75 80  
 Arg Asp Phe Pro Leu Val Asp Gly His Asn Asp Leu Pro Leu Val Leu  
 85 90 95  
 Arg Gln Val Tyr Gln Lys Gly Leu Gln Asp Val Asn Leu Arg Asn Phe  
 100 105 110  
 Ser Tyr Gly Gln Thr Ser Leu Asp Arg Leu Arg Asp Gly Leu Val Gly  
 115 120 125  
 Ala Gln Phe Trp Ser Ala Tyr Val Pro Cys Gln Thr Gln Asp Arg Asp  
 130 135 140  
 Ala Leu Arg Leu Thr Leu Glu Gln Ile Asp Leu Ile Arg Arg Met Cys  
 145 150 155 160  
 Ala Ser Tyr Ser Glu Leu Glu Leu Val Thr Ser Ala Lys Ala Leu Asn  
 165 170 175  
 Asp Thr Gln Lys Leu Ala Cys Leu Ile Gly Val Glu Gly Gly His Ser  
 180 185 190  
 Leu Asp Asn Ser Leu Ser Ile Leu Arg Thr Phe Tyr Met Leu Gly Val  
 195 200 205  
 Arg Tyr Leu Thr Leu Thr His Thr Cys Asn Thr Pro Trp Ala Glu Ser  
 210 215 220  
 Ser Ala Lys Gly Val His Ser Phe Tyr Asn Asn Ile Ser Gly Leu Thr  
 225 230 235 240  
 Asp Phe Gly Glu Lys Val Val Ala Glu Met Asn Arg Leu Gly Met Met  
 245 250 255  
 Val Asp Leu Ser His Val Ser Asp Ala Val Ala Arg Arg Ala Leu Glu  
 260 265 270  
 Val Ser Gln Ala Pro Val Ile Phe Ser His Ser Ala Ala Arg Gly Val  
 275 280 285  
 Cys Asn Ser Ala Arg Asn Val Pro Asp Asp Ile Leu Gln Leu Leu Lys  
 290 295 300  
 Lys Asn Gly Gly Val Val Met Val Ser Leu Ser Met Gly Val Ile Gln  
 305 310 315 320  
 Cys Asn Pro Ser Ala Asn Val Ser Thr Val Ala Asp His Phe Asp His  
 325 330 335  
 Ile Lys Ala Val Ile Gly Ser Lys Phe Ile Gly Ile Gly Gly Asp Tyr  
 340 345 350  
 Asp Gly Ala Gly Lys Phe Pro Gln Gly Leu Glu Asp Val Ser Thr Tyr  
 355 360 365

Pro Val Leu Ile Glu Glu Leu Leu Ser Arg Gly Trp Ser Glu Glu Bu  
 370 375 380  
 Leu Gln Gly Val Leu Arg Gly Asn Leu Leu Arg Val Phe Arg Gln Val  
 385 390 395 400  
 Glu Lys Val Gln Glu Glu Asn Lys Trp Gln Ser Pro Leu Glu Asp Lys  
 405 410 415  
 Phe Pro Asp Glu Gln Leu Ser Ser Ser Cys His Ser Asp Leu Ser Arg  
 420 425 430  
 Leu Arg Gln Arg Gln Ser Leu Thr Ser Gly Gln Glu Leu Thr Glu Ile  
 435 440 445  
 Pro Ile His Trp Thr Ala Lys Leu Pro Ala Lys Trp Ser Val Ser Glu  
 450 455 460  
 Ser Ser Pro His Met Ala Pro Val Leu Ala Val Val Ala Thr Phe Pro  
 465 470 475 480  
 Val Leu Ile Leu Trp Leu  
 485

<210> 1710

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1710

Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys  
 1 5 10 15

Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala  
 20 25 30

Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala  
 35 40 45

Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Leu Po Xaa Asp Thr Leu  
 50 55 60

Gly Leu Cys Xaa Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe  
 65 70 75 80



Cys Leu Pro Gly Leu Asp Pro Val Leu Arg Ala Leu  
85 90

<210> 1711  
<211> 151  
<212> PRT  
<213> Homo sapiens

<400> 1711  
Met Arg Arg Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp  
1 5 10 15  
Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val  
20 25 30  
Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg  
35 40 45  
Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro  
50 55 60  
Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln  
65 70 75 80  
Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu  
85 90 95  
Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu  
100 105 110  
Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu  
115 120 125  
Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln  
130 135 140  
Asp His Ile Tyr His Pro Gln  
145 150

<210> 1712  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 1712  
Asp Leu His Ile Lys Leu Leu Glu His Tyr Cys Leu Thr Ser Cys Lys  
1 5 10 15  
Lys Val Leu Gln Leu  
20

<210> 1713  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1713  
 Pro Gln Ser Pro Gln Arg Gly Cys Tyr Ser Met Leu Xaa Val Leu Ser  
 1 5 10 15  
 Val Ser His Pro Gln Pro Asn Lys Trp Arg Cys Val Val Pro Arg Gly  
 20 25 30  
 Pro Phe Ser His Cys Leu Ala Ser Arg Arg Gly Val Leu Gln Gly Tyr  
 35 40 45  
 Ser Phe Val Cys Thr Cys Arg Leu Val Gly Pro Glu Phe Phe Ser His  
 50 55 60  
 Val Gln Glu  
 65

<210> 1714  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1714  
 Val Trp Arg Arg Cys Val Ser Trp Arg Ser Ile Arg Ala Gln Val Thr  
 1 5 10 15  
 Phe Pro Glu Asp Phe Leu Ser Leu Ser Ser Val Gln Phe Gln Val  
 20 25 30  
 Ile His Val Leu Leu Asp Pro Gly Xaa Thr Gly Ile Ser Thr Asp Leu  
 35 40 45  
 Leu Ala Ser Phe Gly Leu Glu Tyr His Ser Trp Leu Gly Ala Glu Ala  
 50 55 60  
 Ala Gly Leu Ile Val Ile Tyr His Lys Val Ala Arg Lys Leu Pro Arg  
 65 70 75 80  
 Gly Val Arg Lys Ala Ala Gly Gly Gly Arg Val  
 85 90

<210> 1715  
 <211> 190  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1715  
 Met Pro Val Pro Thr Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr  
           1                  5                  10                  15  
 Arg Pro Ala Ser Ala Ala Pro Met Xaa Gly Pro Glu Leu Ala Gln His  
                   20                  25                  30  
 Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala  
                   35                  40                  45  
 Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg  
           50                  55                  60  
 Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu  
           65                  70                  75                  80  
 Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu  
                   85                  90                  95  
 Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr  
                   100                  105                  110  
 Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp  
           115                  120                  125  
 Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro  
           130                  135                  140  
 Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Glu  
           145                  150                  155                  160  
 Pro Thr Ser Tyr Gly Pro His Arg Pro Arg Gln Arg Gln Arg Arg Glu  
                   165                  170                  175  
 Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg  
                   180                  185                  190

<210> 1716  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 1716

Met Glu Pro Ala Met Val Leu Lys Phe Leu Ser Ser Leu Pro Glu Asn  
 1 5 10 15  
 Leu Phe Leu Pro Ser Leu Leu Phe Phe Ala Trp Leu Cys Trp Asn Met  
 20 25 30  
 Val Cys Gly Ser Pro Val Ser Cys Pro Tyr  
 35 40

<210> 1717  
 <211> 488  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (344)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (416)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (429)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (430)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1717  
 Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly  
 1 5 10 15  
 Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser Asp Leu  
 20 25 30  
 Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Gln Asp Thr  
 35 40 45  
 Ser Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys  
 50 55 60  
 Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His  
 65 70 75 80  
 Ser Gln Gln Pro Cys Pro Gln Gly Ala Pro Asp Cys Gln Lys Val Lys  
 85 90 95  
 Val Met Tyr Arg Met Ala His Lys Pro Val Tyr Gln Val Lys Gln Lys  
 100 105 110

Val Leu Thr Ser Leu Ala Trp Arg Cys Cys Pro Gly Tyr Thr Gly Pro  
 115 120 125  
 Asn Cys Glu His His Asp Ser Met Ala Ile Pro Glu Pro Ala Asp Pro  
 130 135 140  
 Gly Asp Ser His Gln Glu Pro Gln Asp Gly Pro Val Ser Phe Lys Pro  
 145 150 155 160  
 Gly His Leu Ala Ala Val Ile Asn Glu Val Glu Val Gln Gln Glu Gln  
 165 170 175  
 Gln Glu His Leu Leu Gly Asp Leu Gln Asn Asp Val His Arg Val Ala  
 180 185 190  
 Asp Ser Leu Pro Gly Leu Trp Lys Ala Leu Pro Gly Asn Leu Thr Ala  
 195 200 205  
 Ala Val Met Glu Ala Asn Gln Thr Gly His Glu Phe Pro Asp Arg Ser  
 210 215 220  
 Leu Glu Gln Val Leu Leu Pro His Val Asp Thr Phe Leu Gln Val His  
 225 230 235 240  
 Phe Ser Pro Ile Trp Arg Ser Phe Asn Gln Ser Leu His Ser Leu Thr  
 245 250 255  
 Gln Ala Ile Arg Asn Leu Ser Leu Asp Val Glu Ala Asn Arg Gln Ala  
 260 265 270  
 Ile Ser Arg Val Gln Asp Ser Ala Val Ala Arg Ala Asp Phe Gln Glu  
 275 280 285  
 Leu Gly Ala Lys Phe Glu Ala Lys Val Gln Glu Asn Thr Gln Arg Val  
 290 295 300  
 Gly Gln Leu Arg Gln Asp Val Glu Glu Arg Leu His Ala Gln His Phe  
 305 310 315 320  
 Thr Leu His Arg Ser Ile Ser Glu Leu Gln Ala Asp Val Asp Thr Lys  
 325 330 335  
 Leu Lys Arg Leu His Lys Ala Xaa Glu Ala Pro Gly Thr Asn Gly Ser  
 340 345 350  
 Leu Val Leu Ala Thr Pro Gly Ala Gly Ala Arg Pro Glu Pro Asp Ser  
 355 360 365  
 Leu Gln Ala Arg Leu Gly Gln Leu Gln Arg Asn Leu Ser Glu Leu His  
 370 375 380  
 Met Thr Thr Ala Arg Arg Glu Glu Glu Leu Gln Tyr Thr Leu Glu Asp  
 385 390 395 400  
 Met Arg Ala Thr Leu Thr Arg His Val Asp Glu Ile Lys Glu Leu Xaa  
 405 410 415

Ser Glu Ser Asp Glu Thr Phe Asp Gln Ile Ser Lys Xaa Xaa Arg Gln  
 420 425 430  
 Val Glu Glu Leu Gln Val Asn His Thr Ala Leu Arg Glu Leu Arg Val  
 435 440 445  
 Ile Leu Met Glu Lys Ser Leu Ile Met Glu Glu Asn Lys Glu Glu Val  
 450 455 460  
 Glu Arg Gln Leu Leu Glu Leu Asn Leu Thr Leu Gln His Leu Gln Gly  
 465 470 475 480  
 Gly Met Pro Thr Ser Ser Ser Thr  
 485

<210> 1718  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1718  
 Met Ile Arg Ile Gln Phe Leu His Leu Phe Leu Trp Val Gly Phe Ile  
 1 5 10 15  
 Phe Arg Gln Pro Pro Ser Ser Tyr Pro Gln Asp Gly Arg Asp Ser Pro  
 20 25 30  
 Trp Ser Phe Pro Cys Arg Asp Arg Ser Pro Gly Asn Asn Thr Ser Ile  
 35 40 45  
 Pro Ser His Glu Thr Val Leu Asn Phe Ile Leu Thr  
 50 55 60

<210> 1719  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 1719  
 Met Ser Val Trp Pro Arg Ser Thr Leu Leu Phe Cys Leu Leu Ser Leu  
 1 5 10 15  
 Ser Thr Gly Leu Phe Leu Asp Lys Leu Gly Ile Ile Ile Pro Ile Leu  
 20 25 30  
 Leu Cys Gly Trp Lys Leu Asn Val Ile Met Met Cys Val Arg Cys Leu  
 35 40 45  
 His Ser Ala Trp Arg Tyr  
 50

<210> 1720  
 <211> 215  
 <212> PRT  
 <213> Homo sapiens

<400> 1720  
 Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys  
 1 5 10 15  
 Leu Gln Leu Thr His Ser Cys Lys Ile Tyr Arg Ile Gln Glu Pro Gly  
 20 25 30  
 Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile  
 35 40 45  
 Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser  
 50 55 60  
 Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His  
 65 70 75 80  
 Leu Leu Thr Asn Phe Ile Cys Val Ala Ile Phe Leu Asn Phe Ser Ala  
 85 90 95  
 Ile Ile Leu Ile Ser Asn Cys Leu Val Ile Arg Gln Leu Tyr Arg Asn  
 100 105 110  
 Lys Asp Asn Glu Asn Tyr Pro Asn Val Lys Lys Ala Leu Ile Asn Ile  
 115 120 125  
 Leu Leu Val Thr Thr Gly Tyr Ile Ile Cys Phe Val Pro Tyr His Ile  
 130 135 140  
 Val Arg Ile Pro Tyr Thr Leu Ser Gln Thr Glu Val Ile Thr Asp Cys  
 145 150 155 160  
 Ser Thr Arg Ile Ser Leu Phe Lys Ala Lys Glu Ala Thr Leu Leu Leu  
 165 170 175  
 Ala Val Ser Asn Leu Cys Phe Asp Pro Ile Leu Tyr Tyr His Leu Ser  
 180 185 190  
 Lys Ala Phe Arg Ser Lys Val Thr Glu Thr Phe Ala Ser Pro Lys Glu  
 195 200 205  
 Thr Lys Val Arg Lys Lys Asn  
 210 215

<210> 1721  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 1721

Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala  
 1 5 10 15  
 His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro  
 20 25 30  
 Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg  
 35 40 45  
 Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Thr Lys Arg Val  
 50 55 60  
 Gln Gln Met Leu Leu Phe His Ser Tyr Gly Ile Ala Gln  
 65 70 75

<210> 1722

<211> 306

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
 <221> SITE  
 <222> (218)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (219)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1722  
 Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala  
   1                  5                  10                  15  
 Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu  
                   20                  25                  30  
 Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val  
           35                  40                  45  
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser  
   50                  55                  60  
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala  
   65                  70                  75                  80  
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp  
                   85                  90                  95  
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser  
           100                  105                  110  
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val  
   115                  120                  125  
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile  
   130                  135                  140  
 Gln Trp Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln Val Gly  
 145                  150                  155                  160  
 Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His  
                   165                  170                  175  
 Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg  
           180                  185                  190  
 Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa  
   195                  200                  205  
 Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser  
   210                  215                  220  
 Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro  
 225                  230                  235                  240  
 Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys





Pro Gly Pro Ile Pro Pro His Thr Gln Val Arg Asn Gln Val Tyr Ser  
 225 230 235 240  
 Trp Leu Leu Arg Leu Arg Pro Pro Ser Gln Gly Tyr Leu Ser Ser Arg  
 245 250 255  
 Ser Pro Gln Glu Met Leu Arg Ala Ser Gly Leu Thr Gln Lys Trp Val  
 260 265 270  
 Gln Arg Glu Ile Ser Asn Phe Glu Tyr Leu Met Gln Leu Asn Thr Ile  
 275 280 285  
 Ala Gly Arg Thr Tyr Asn Asp Leu Ser Gln Tyr Pro Val Phe Pro Trp  
 290 295 300  
 Val Leu Gln Asp Tyr Val Ser Pro Thr Leu Asp Leu Ser Asn Pro Ala  
 305 310 315 320  
 Val Phe Arg Asp Leu Ser Lys Pro Ile Gly Val Val Asn Pro Lys His  
 325 330 335  
 Ala Gln Leu Val Arg Glu Lys Tyr Glu Ser Phe Glu Asp Pro Ala Gly  
 340 345 350  
 Thr Ile Asp Lys Phe His Tyr Gly Thr His Tyr Ser Asn Ala Ala Gly  
 355 360 365  
 Val Met His Tyr Leu Ile Arg Val Glu Pro Phe Thr Ser Leu His Val  
 370 375 380  
 Gln Leu Gln Ser Gly Arg Phe Asp Cys Ser Asp Arg Gln Phe His Ser  
 385 390 395 400  
 Val Ala Ala Ala Trp Gln Ala Arg Leu Glu Ser Pro Ala Asp Val Lys  
 405 410 415  
 Glu Leu Ile Pro Glu Phe Phe Tyr Phe Pro Asp Phe Leu Glu Asn Gln  
 420 425 430  
 Asn Gly Phe Asp Leu Gly Cys Leu Gln Leu Thr Asn Glu Lys Val Gly  
 435 440 445  
 Asp Val Val Leu Pro Pro Trp Ala Ser Ser Pro Glu Asp Phe Ile Gln  
 450 455 460  
 Gln His Arg Gln Ala Leu Glu Ser Glu Tyr Val Ser Ala His Leu His  
 465 470 475 480  
 Glu Trp Ile Asp Leu Ile Phe Gly Tyr Lys Gln Arg Gly Pro Ala Ala  
 485 490 495  
 Glu Glu Ala Leu Asn Val Phe Tyr Tyr Cys Thr Tyr Glu Gly Ala Val  
 500 505 510  
 Asp Leu Asp His Val Thr Asp Glu Arg Glu Arg Lys Ala Leu Glu Gly  
 515 520 525

Ile Ile Ser Asn Phe Gly Gln Thr Pro Cys Gln Leu Leu Lys Glu Pro  
 530 535 540  
 His Pro Thr Arg Leu Ser Ala Glu Glu Ala Ala His Arg Leu Ala Arg  
 545 550 555 560  
 Leu Asp Thr Asn Ser Pro Ser Ile Phe Gln His Leu Asp Glu Leu Lys  
 565 570 575  
 Ala Phe Phe Ala Glu Val Val Ser Asp Gly Val Pro Leu Val Leu Ala  
 580 585 590  
 Leu Val Pro His Arg Gln Pro His Ser Phe Ile Thr Gln Gly Ser Pro  
 595 600 605  
 Asp Leu Leu Val Thr Val Ser Ala Ser Gly Leu Leu Gly Thr His Ser  
 610 615 620  
 Trp Leu Pro Tyr Asp Arg Asn Ile Ser Asn Tyr Phe Ser Phe Ser Lys  
 625 630 635 640  
 Asp Pro Thr Met Gly Ser His Lys Thr Gln Arg Leu Leu Ser Gly Pro  
 645 650 655  
 Trp Val Pro Gly Ser Gly Val Ser Gly Gln Ala Leu Ala Val Ala Pro  
 660 665 670  
 Asp Gly Lys Leu Leu Phe Ser Gly Gly His Trp Asp Gly Ser Leu Arg  
 675 680 685  
 Val Thr Ala Leu Pro Arg Gly Lys Leu Leu Ser Gln Leu Ser Cys His  
 690 695 700  
 Leu Asp Val Val Thr Cys Leu Ala Leu Asp Thr Cys Gly Ile Tyr Leu  
 705 710 715 720  
 Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His  
 725 730 735  
 Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu  
 740 745 750  
 Tyr Gly His Gly Ala Ala Val Ser Cys Val Ala Ile Ser Thr Glu Leu  
 755 760 765  
 Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr Val Ile Ile His Thr  
 770 775 780  
 Val Arg Arg Gly Gln Phe Val Ala Ala Leu Arg Pro Leu Gly Ala Thr  
 785 790 795 800  
 Phe Pro Gly Pro Ile Phe His Leu Ala Leu Gly Ser Glu Gly Gln Ile  
 805 810 815  
 Val Val Gln Ser Ser Ala Trp Glu Arg Pro Gly Ala Gln Val Thr Tyr  
 820 825 830

Ser Leu His Leu Tyr Ser Val Asn Gly Lys Leu Arg Ala Ser Leu Pro  
835 840 845

Leu Ala Glu Gln Pro Thr Ala Leu Thr Val Thr Glu Asp Phe Val Leu  
850 855 860

Leu Gly Thr Ala Gln Cys Ala Leu His Ile Leu Gln Leu Asn Thr Leu  
865 870 875 880

Leu Pro Ala Ala Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser Val  
885 890 895

Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp Gly  
900 905 910

Lys Leu Ile Val Val Val Ala Gly Gln Pro Ser Glu Val Arg Ser Ser  
915 920 925

Gln Phe Ala Arg Lys Leu Trp Arg Ser Ser Arg Arg Ile Ser Gln Val  
930 935 940

Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg  
945 950 955

<210> 1726

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1726

Met Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe  
1 5 10 15

Leu Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile  
20 25 30

Ser Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe  
35 40 45

Ser Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu Trp Trp  
50 55 60

Val Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn  
65 70 75 80

Tyr Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn Leu Pro Arg  
85 90 95

Thr Arg Val Leu Phe Ile Tyr  
100

<210> 1727

<211> 198  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1727  
 Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met Leu Leu  
 1 5 10 15  
 His Leu Thr Ala Ala Phe Leu Gln Arg Ala Gln His Xaa Phe Asp Tyr  
 20 25 30  
 Lys Asp Glu Ser Gly Phe Pro Lys Pro Pro Ser Tyr Asn Val Ala Thr  
 35 40 45  
 Thr Leu Pro Ser Tyr Asp Glu Ala Glu Arg Thr Lys Ala Glu Ala Thr  
 50 55 60  
 Ile Pro Leu Val Pro Gly Arg Asp Glu Asp Phe Val Gly Arg Asp Asp  
 65 70 75 80  
 Phe Asp Asp Ala Asp Gln Leu Arg Ile Gly Asn Asp Gly Ile Phe Met  
 85 90 95  
 Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe Leu  
 100 105 110  
 Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile Ser  
 115 120 125  
 Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser  
 130 135 140  
 Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu TrpTrp Val  
 145 150 155 160  
 Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn Tyr  
 165 170 175  
 Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn LeuPro Arg Thr  
 180 185 190  
 Arg Val Leu Phe Ile Tyr  
 195

<210> 1728  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1728  
 Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Val Glu Pro Ala Cys Ala  
   1                  5                  10                  15  
 Ala Gly Thr Ser Ser Cys Arg Met Lys Lys Ser Leu Glu Asn Leu Asn  
                   20                  25                  30  
 Arg Leu Gln Val Met Leu Leu His Leu Thr Ala Ala Phe Leu Gln Arg  
           35                  40                  45  
 Ala Gln Phe Ser Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp  
       50                  55                  60  
 Leu Trp Trp Val Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly  
       65                  70                  75                  80  
 Phe Ile Asn Tyr Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn  
                   85                  90                  95  
 Leu Pro Arg Thr Arg Val Leu Phe Ile Tyr  
           100                  105

<210> 1729  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1729  
 Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Arg Ala Ala Cys Xaa  
   1                  5                  10                  15  
 Ala Gly Thr Ser Ser Cys Arg Met Lys Lys Ser Leu Glu Asn Leu Asn  
                   20                  25                  30  
 Arg Leu Gln Val Met Leu Leu His Leu Thr Ala Ala Phe Leu Gln Arg  
           35                  40                  45



Ala His Xaa Ile Leu Thr Thr Arg Met Ser Leu Gly Phe Gln Ser Pro  
 50 55 60

His Leu Thr Met  
 65

<210> 1730  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1730  
 Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Val Glu Xaa Pro Ala Xaa  
 1 5 10 15

Pro Val Pro Ala Val Ala Glu  
 20

<210> 1731  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1731  
 Met Arg Lys Val Thr Ile Ser Lys Lys His Ala Leu Leu Leu Cys Phe  
 1 5 10 15

Gln Leu Phe Arg Cys Leu Leu Ser Met Tyr Ile Trp Ile Thr Phe Val  
 20 25 30

Leu Asp Gly Ser Cys Gly Ile His Cys Ser Leu Lys Pro Val Ser Phe  
 35 40 45

Pro Cys Thr Tyr His Ser Val His Ser Ser Thr Ser  
 50 55 60

<210> 1732  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (85)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (104)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1732  
 Met Arg Pro Ala Phe Ala Leu Cys Leu Leu Trp Gln Ala Leu Trp Pro  
   1                  5                  10                  15  
 Gly Pro Gly Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly Cys Ser  
                   20                  25                  30  
 Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met Lys Arg Gln  
                   35                  40                  45  
 Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala Leu Ser Thr Val  
                   50                  55                  60  
 Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala Leu Leu Arg Ala Gly  
   65                  70                  75                  80  
 Pro Gly Pro Gly Xaa Gly Ser Lys Asp Leu Leu Phe Trp Val Ala Leu  
                   85                  90                  95  
 Glu Arg Arg Arg Ser His Cys Xaa Leu Glu Asn Glu Pro Leu Arg Gly  
                   100                  105                  110  
 Phe Ser Trp Leu Ser Ser Asp Pro Gly Gly Leu Glu Ser Asp Thr Leu  
                   115                  120                  125  
 Gln Trp Val Glu Glu Pro Gln Arg Ser Cys Thr Ala Arg Arg Trp Val  
   130                  135                  140  
 Leu Pro Gly His Arg Trp Gly Arg Ala Arg Ser Trp Lys Glu Met Arg  
  145                  150                  155                  160  
 Cys His Leu Xaa Ala Asn Ala Thr Cys Ala Ser Thr Ser Leu Arg Ser  
                   165                  170                  175  
 Cys Val Leu Arg Arg Ala Pro Gly Pro Pro Leu Thr  
                   180                  185

<210> 1733  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1733  
 Met Leu Glu Thr Leu Ser Gln Phe Ile Ser Ile Leu Phe Val Leu Leu  
           1                  5                  10                  15  
 Trp Ile Ile Ser Asp Leu Ile Leu Cys Phe Leu Lys Cys Gly Asn Pro  
                   20                  25                  30  
 Gly Thr Leu Asp Met Val Leu Pro Ile Trp Thr Asn Gln Tyr Ile His  
           35                  40                  45  
 Ser Ser Arg Ser Ile Leu Ser Phe Ile  
           50                  55

<210> 1734  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 1734  
 Met Leu Cys Val Cys Val Leu Trp Met Phe Thr Val Pro Gly Ser Arg  
           1                  5                  10                  15  
 Lys Asp Val Gly Glu Ala Ala Pro Ala Ser Gly Thr Gly Gln Glu Cys  
                   20                  25                  30  
 Arg Met His Gly Ser Trp Ser Gly Arg Ser Leu Gly  
           35                  40

<210> 1735  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 1735  
 Met Leu Cys Val Cys Val Leu Trp Met Phe Thr Val Pro Gly Ser Arg  
           1                  5                  10                  15  
 Lys Asp Val Gly Glu Ala Ala Pro Ala Ser Gly Thr Gly Gln Glu Cys  
                   20                  25                  30  
 Arg Met His Gly Ser Trp Ser Gly Arg Ser Leu Gly  
           35                  40

<210> 1736  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1736  
 Met Arg His Val Ala Ile Val Thr Met Ile Val Val Leu Ser Pro Pro  
           1                  5                  10                  15  
 Val Leu Ala Ser Ser Leu Lys Pro Pro Leu Phe Ile Asp Thr Tyr Phe  
                   20                  25                  30  
 Met Phe Gly Lys Arg Cys Ser Arg Trp Asp Thr Pro Ala Cys Ser Lys  
           35                  40                  45

<210> 1737  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 1737  
 Met Ala Gly His Pro Thr Leu Ile Leu Leu Cys Lys Trp Ala Phe His  
           1                  5                  10                  15  
 Leu Thr Gly Ala Ile Cys Glu Pro Tyr Leu Asn Gln Thr Leu ~~Pro~~ Thr  
                   20                  25                  30  
 Gln Ala Cys Leu  
           35

<210> 1738  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 1738  
 Leu Leu Leu Cys Lys Phe Lys Lys Val Asn Tyr Phe Leu Lys Val Leu  
           1                  5                  10                  15  
 Ile Ser Asn Phe Ser Ile Trp Ala Tyr Asp His His  
                   20                  25

<210> 1739  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 1739

Cys Lys Trp Val Gln Asn Gly Gly His Pro Asn Val Glu Ser Lys  
 1 5 10 15  
 Tyr His Cys His Glu Pro Lys Ala Ser Leu Tyr Thr Leu Glu Glu Ser  
 20 25 30  
 Thr Leu

<210> 1740  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1740  
 Met Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr  
 1 5 10 15  
 Ile Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr  
 20 25 30  
 Pro Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val  
 35 40 45  
 Tyr Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser  
 50 55 60  
 Leu Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala  
 65 70 75 80  
 Lys Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val  
 85 90 95  
 Met Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Ser Asp Phe Gln Leu  
 100 105 110  
 Phe Phe His His Phe Tyr His His Gln  
 115 120

<210> 1741  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1741  
 Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val  
 1 5 10 15

Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe  
                   20                  25                  30  
 Ala Ser Pro Pro Thr Thr Phe Met Xaa Ile Gln Cys Cys Ser His Cys  
                   35                  40                  45  
 Ser

<210> 1742  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 1742  
 Ser Gly Trp Gln Val Pro Ser Ser Val Lys His Leu Pro Tyr Asp Asn  
   1                  5                  10                  15  
 Leu Arg Ser His Cys Val Ala Asp Glu Gly Glu Thr Glu Val Glu Gly  
                   20                  25                  30  
 Thr Arg Ala Thr Trp Val Glu His Ser Gly Arg Pro Gly Val Gly Ser  
                   35                  40                  45  
 Gly Arg Pro Pro Gly Thr Ser Leu Thr Thr Leu Pro Leu Leu Leu Thr  
                   50                  55                  60  
 His Leu Ser Leu Thr Cys Pro Leu Gly Gly Asp Phe Ser Lys Arg  
   65                  70                  75

<210> 1743  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 1743  
 Met Leu Phe Cys Ile Leu Leu Tyr Thr Leu Gy Ser Ala Arg Cys His  
   1                  5                  10                  15  
 His Leu Ser Phe Phe Leu Trp Gly Trp Ser Asn Pro Pro Glu Lys Thr  
                   20                  25                  30  
 Pro Leu Ala Ser Trp Arg Gly Val Lys Ala Arg Bu Pro Gly Pro Gly  
                   35                  40                  45  
 Cys Gln Leu Leu Gly Ala Ala Gly Ala Glu Ala Gly Ser Cys Gln Ala  
                   50                  55                  60  
 Phe Ser Gln Gln Asp Ala Leu Ser Thr His Leu Gly Phe Arg Ile Pro  
   65                  70                  75                  80  
 Leu Pro His Leu Gln Met Gly Gln Met Ser Pro Lys Pro Ala Ala Pro  
                   85                  90                  95

Phe Cys Phe Thr Leu Ser Thr Glu  
100

<210> 1744  
<211> 148  
<212> PRT  
<213> Homo sapiens

<400> 1744  
Met Val Trp Phe Ser Cys Trp Leu Leu Thr Gln Ser Ile Thr Val Ile  
1 5 10 15  
Leu Gly Ala Arg Gly Arg Tyr Gly Arg Leu Cys Val Leu Gln Gly Arg  
20 25 30  
His Cys Gly Leu Val Asp Lys Ser Gly Ser Pro Asn Pro Phe Ser Ala  
35 40 45  
Asp Val Leu Ala Val His Ser Gly Gln Val Ser His Ser Pro Glu Pro  
50 55 60  
Gln Arg Leu Tyr Gln Tyr Asp Glu Asn Lys Tyr Ser Thr Cys Leu Pro  
65 70 75 80  
His Gly Val Val Ser Ala Val Asn Glu Ile Met Tyr Met Lys His Leu  
85 90 95  
Val Tyr Leu Ala Pro Asn Lys Ser Ser Thr Thr Ser Ser Leu Ile Thr  
100 105 110  
Asn Lys Met Glu Leu Glu Gly Cys Ile Ser Leu Asn Lys Ile Leu Arg  
115 120 125  
Gln Ile Leu Gly Val Pro Val Phe Ile Leu Gln Leu Glu Ser Pro Pro  
130 135 140  
Ser Leu Phe Gly  
145

<210> 1745  
<211> 88  
<212> PRT  
<213> Homo sapiens

<400> 1745  
Met Lys Ile Ala Val Leu Phe Cys Phe Phe Leu Leu Ile Ile Phe Gln  
1 5 10 15  
Thr Asp Phe Gly Lys Asn Glu Glu Ile Pro Arg Lys Gln Arg Arg Lys  
20 25 30  
Ile Tyr His Arg Arg Leu Arg Lys Ser Ser Thr Ser His Lys His Arg

35                      40                      45  
 Ser Asn Arg Gln Leu Gly Ile Pro Gln Thr Thr Val Phe Thr Pro Val  
     50                      55                      60  
 Ala Arg Leu Pro Ile Val Asn Phe AspTyr Ser Met Glu Glu Lys Phe  
     65                      70                      75                      80  
 Glu Ser Phe Gln Val Phe Leu Glu  
                                  85

<210> 1746  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1746  
 Ile Phe Ala Leu Ser Leu Ser PheTyr Thr Cys Ile His Ile His Thr  
     1                      5                      10                      15  
 His Arg His Thr  
                                  20

<210> 1747  
 <211> 484  
 <212> PRT  
 <213> Homo sapiens

<400> 1747  
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu TrpPro Leu Leu  
     1                      5                      10                      15  
 Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro  
                                  20                      25                      30  
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser ProGly Arg  
                                  35                      40                      45  
 Arg Pro Gly Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly  
     50                      55                      60  
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu  
     65                      70                      75                      80  
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu  
                                  85                      90                      95  
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp  
                                  100                      105                      110  
 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr  
     115                      120                      125



Val Lys Ile Glu Phe His Leu Gln Thr His Ser Asp Lys Gln Ser Leu  
130 135 140  
Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser  
145 150 155 160  
Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala  
165 170 175  
Gly Ala Arg Gly Pro Thr Ser Asn Ile Pro Lys Val Ala Ile Ile Val  
180 185 190  
Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala  
195 200 205  
Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Arg Ala Asp  
210 215 220  
Met Glu Ser Leu Lys Met Met Ala Ser Glu Pro Leu Asp Glu His Val  
225 230 235 240  
Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Leu Ser Ser Arg Phe  
245 250 255  
Gln Glu Thr Phe Cys Ala Leu Asp Pro Cys Val Leu Gly Thr His Arg  
260 265 270  
Cys Gln His Val Cys Val Ser Asp Gly Glu Gly Lys His His Cys Glu  
275 280 285  
Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala  
290 295 300  
Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val  
305 310 315 320  
Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr  
325 330 335  
Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe  
340 345 350  
Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser  
355 360 365  
His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys  
370 375 380  
Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln  
385 390 395 400  
His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe  
405 410 415  
Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu  
420 425 430

Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala  
           435                                  440                                  445  
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn  
           450                                  455                                  460  
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly  
           465                                  470                                  475                                  480  
 Gln Ile His Arg

<210> 1748  
 <211> 266  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (134)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (183)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (222)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (224)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (255)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1748

Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu  
1 5 10 15  
Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro  
20 25 30  
Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Xaa Pro Xaa Arg  
35 40 45  
Arg Pro Xaa Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly  
50 55 60  
Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu  
65 70 75 80  
Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu  
85 90 95  
Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp  
100 105 110  
Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr  
115 120 125  
Val Lys Ile Glu Phe Xaa Leu Gln Thr His Ser Asp Lys Gln Ser Leu  
130 135 140  
Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser  
145 150 155 160  
Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala  
165 170 175  
Gly Ala Arg Gly Pro Thr Xaa Asn Ile Pro Lys Val Ala Ile Ile Val  
180 185 190  
Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala  
195 200 205  
Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Xaa Ala Xaa  
210 215 220  
Met Glu Ser Leu Gln Asp Glu Trp Pro Ala Lys Pro Leu Asp Glu His  
225 230 235 240  
Val Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Pro Ser Xaa Arg  
245 250 255  
Phe Gln Glu Thr Leu Leu Arg Ser Trp Asn  
260 265

<210> 1749

<211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 1749  
 Val Leu Leu Ile Leu  
           1                  5

<210> 1750  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 1750  
 Lys Met His Phe Asn Lys Asn Lys Ser Ile Leu Lys Ser Phe Ser Phe  
           1                  5                  10                  15  
 Val Arg Gly Asn Met Asn Glu Ile His Ser Tyr Leu Lys Thr Glu Tyr  
                   20                  25                  30  
 Phe Thr Ala Lys Thr Leu Asn Ile Ser Arg Ala Tyr His Ile Leu Asn  
                   35                  40                  45  
 Thr Leu Trp Ser Cys Ser Tyr Phe Asn Ile Pro Gly Ser Gly Gly Gln  
           50                  55                  60  
 Leu Ala Cys Leu Trp Leu Arg Ile Cys Phe His Ala Cys Phe Leu Ser  
           65                  70                  75                  80  
 Phe Phe Tyr Leu

<210> 1751  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1751  
 Met Gln Pro Pro Ser Leu Leu Leu Leu Val Leu Gly Leu Leu Ala Ala  
   1                  5                  10                  15  
 Pro Ala Ala Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Val  
                   20                  25                  30  
 Arg Arg Thr Met Ser Glu Leu Gly Gly Pro Val Glu Asp Leu Ile Ala  
           35                  40                  45  
 Arg Xaa Pro Ile Ser Lys Tyr Ala Gln Gly Val Pro Ser Val Ala Gly  
       50                  55                  60  
 Gly Pro Val Pro Glu Xaa Leu Lys Glu Thr Thr Trp Asn Ala Gln Ile  
   65                  70                  75                  80  
 Leu Arg Gly Lys Phe Xaa His Pro Gly Thr Pro Pro Arg Lys Leu Leu  
                   85                  90                  95  
 Pro Pro Val Xaa Pro Phe Glu Lys Arg Gly Ser Phe Pro Thr Leu Leu  
           100                  105                  110  
  
 Gly Ser Pro  
       115

<210> 1752  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1752  
 Leu Val Val Leu Gly Val Cys Ala Ala Gln His Glu Leu Thr Pro Arg  
   1                  5                  10                  15  
 Leu Arg Ala Gly Val Pro Val Gln Val Glu Arg Glu Asp Val Leu Leu  
           20                  25                  30

His Gln Leu Leu Leu His Gln Val Ile Lys Xaa Gly Lys His Ile Val  
                   35                                  40                                  45  
 Asp Arg Asp Ala Gly Val Gly His Ala Gln Asp Ala Val Glu Leu Gly  
                   50                                  55                                  60  
 Arg Asp Glu Gly Xaa Xaa Arg Leu Leu Gly Gly Phe Pro Glu Arg Leu  
                   65                                  70                                  75                                  80  
 Pro Leu His Leu Asp Ala Ser Gln Ala Arg Gln Thr  
                                   85                                  90

<210> 1753  
 <211> 368  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (310)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (365)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1753  
 Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys Leu Leu Ala Ala  
                   1                                  5                                  10                                  15  
 Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Ile  
                                   20                                  25                                  30  
 Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu Asp Leu Ile Ala  
                   35                                  40                                  45  
 Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro Ala Val Thr Glu  
                   50                                  55                                  60  
 Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp Ala Gln Tyr Tyr  
                   65                                  70                                  75                                  80  
 Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe  
                                   85                                  90                                  95  
 Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu  
                   100                                  105                                  110  
 Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Asp Lys Ser  
                   115                                  120                                  125  
 Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser  
                   130                                  135                                  140

Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys  
 145 150 155 160  
 Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val Lys Val Glu Arg  
 165 170 175  
 Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala  
 180 185 190  
 Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val  
 195 200 205  
 Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val  
 210 215 220  
 Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp Pro Asp Ala Gln  
 225 230 235 240  
 Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys  
 245 250 255  
 Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala Tyr Trp Gln Val  
 260 265 270  
 His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr Leu Cys Lys Glu  
 275 280 285  
 Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu Met Val Gly Pro  
 290 295 300  
 Val Asp Glu Val Arg Xaa Leu Gln Lys Ala Ile Gly Ala Val Pro Leu  
 305 310 315 320  
 Ile Gln Gly Glu Tyr Met Ile Pro Cys Glu Lys Val Ser Thr Leu Pro  
 325 330 335  
 Ala Ile Thr Leu Lys Leu Gly Gly Lys Gly Tyr Lys Leu Ser Pro Glu  
 340 345 350  
 Asp Tyr Thr Leu Lys Val Ser Gln Ala Gly Lys Thr Xaa Cys Leu Ser  
 355 360 365

<210> 1754  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 1754  
 Met Leu Val Leu Phe Lys Phe Leu Pro Leu Thr Ser Ser Gly Arg Phe  
 1 5 10 15

Leu Ser Val Thr Leu Tyr His Arg Val His His Gln Thr Phe Phe Ala  
                   20                  25                  30  
 Gly Ala Lys Ser Phe Ser Pro Ala Ser Thr Leu Asn Leu Tyr Ile Cys  
                   35                  40                  45  
 Ser Ser Gln Phe Gln Ser Leu Gln Lys Leu Tyr Cys Gly Val Ile Pro  
                   50                  55                  60  
 Val Leu Arg Tyr Ala Ser Ile Glu  
                   65                  70

<210> 1755

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1755

Met Lys Thr Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn  
                   1                  5                  10                  15

Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu  
                   20                  25                  30

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala  
                   35                  40                  45

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu  
                   50                  55                  60

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys  
                   65                  70                  75                  80

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala  
                   85                  90                  95

Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa  
                   100                  105                  110

<210> 1756



<211> 112  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1756  
Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn  
1 5 10 15  
Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu  
20 25 30  
Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala  
35 40 45  
Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu  
50 55 60  
Glu Arg Lys Ser Leu Leu Xaa Asn Leu Glu Glu Ala Lys Lys Lys Lys  
65 70 75 80  
Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala  
85 90 95  
Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa  
100 105 110

<210> 1757  
<211> 139  
<212> PRT  
<213> Homo sapiens

<400> 1757  
Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn  
1 5 10 15  
Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu  
20 25 30

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala  
           35                          40                          45  
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu  
           50                          55                          60  
 Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys  
   65                          70                          75                          80  
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala  
                           85                          90                          95  
 Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys  
                   100                          105                          110  
 Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu  
           115                          120                          125  
 Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly  
       130                          135

<210> 1758  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 1758  
 Leu Leu Val Val Leu Leu Ser  
   1                          5

<210> 1759  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 1759  
 Leu Leu Leu Val Gly Leu Gln Gln Leu Val Val Gln Ala Trp  
   1                          5                          10

<210> 1760  
 <211> 288  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring amino acids  
 <220>

<221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (268)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (271)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (273)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (274)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (276)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (286)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1760  
 Phe Ser Ser Ser Ala Cys Pro Ser Val Xaa Ser Leu Phe Val Xaa Leu  
 1 5 10 15  
  
 Gly Lys Asn Pro His Asp Ala Gln Gly His Pro Arg Ala Ser Glu Asp  
 20 25 30  
  
 Gln Pro Ser Ser Gly Lys Pro Val Thr Ser Tyr Pro Gly Glu Cys Gly  
 35 40 45  
  
 Phe Val Phe Thr Lys Glu Ala Ser Leu Glu Ile Arg Asp Met Leu Leu  
 50 55 60  
  
 Ala Asn Lys Val Pro Ala Ala Ala Arg Ala Gly Ala Ile Ala Pro Cys  
 65 70 75 80  
  
 Glu Val Thr Val Pro Ala Gln Asn Thr Gly Leu Gly Pro Glu Lys Thr  
 85 90 95  
  
 Ser Phe Phe Gln Ala Leu Gly Ile Thr Thr Lys Ile Ser Arg Gly Thr  
 100 105 110  
  
 Ile Glu Ile Leu Ser Asp Val Gln Leu Ile Lys Thr Gly Asp Lys Val

115                                      120                                      125  
 Gly Ala Ser Glu Ala Thr Leu Leu Asn Met Leu Asn Ile Ser Pro Phe  
     130                                      135                                      140  
 Ser Phe Gly Leu Ile Ile Gln Gln Val Phe Asp Asn Gly Ser Ile Tyr  
 145                                      150                                      155                                      160  
 Asn Pro Glu Val Leu Asp Ile Thr Glu Glu Thr Leu His Ser Arg Phe  
                                     165                                      170                                      175  
 Leu Glu Gly Val Arg Asn Val Ala Ser Val Cys Leu Gln Ile Gly Tyr  
                                     180                                      185                                      190  
 Pro Thr Val Ala Ser Val Pro His Ser Ile Ile Asn Gly Tyr Lys Arg  
                                     195                                      200                                      205  
 Val Leu Ala Leu Ser Val Glu Thr Asp Tyr Thr Phe Pro Leu Ala Glu  
                                     210                                      215                                      220  
 Lys Val Lys Ala Phe Leu Ala Asp Pro Ser Ala Phe Val Ala Ala Ala  
 225                                      230                                      235                                      240  
 Pro Val Ala Ala Ala Thr Thr Ala Ala Pro Ala Ala Ala Ala Ala Pro  
                                     245                                      250                                      255  
 Ala Lys Val Glu Ala Lys Glu Glu Ser Glu Glu Xaa Asp Glu Xaa Ile  
                                     260                                      265                                      270  
 Xaa Xaa Ser Xaa Ile Ser Lys Ser Asn Asn Ser Ser Gln Xaa Ile Val  
                                     275                                      280                                      285

<210> 1761  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 1761  
 Met Ala Pro Ser Gly Pro Leu Leu Leu Val Leu Leu Val Pro Leu Ala  
     1                                      5                                      10                                      15  
 Ala Ala Arg Pro Gly Pro Thr Ser Val Pro Ala Gly Ala Ala Ala Cys  
                                     20                                      25                                      30  
 Pro Cys Gly Gly Thr Ser Cys Arg Gly Trp Gly Ala Gly Pro Thr Pro  
                                     35                                      40                                      45  
 Gly Arg Thr Ser Thr Cys Pro His Leu Thr Cys Pro Arg Ala Gly Thr  
                                     50                                      55                                      60  
 Gly Ala Thr  
     65

<210> 1762  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 1762  
 Pro Gln Gly Pro Asn Asp Val Thr Ala Lys Leu Leu Cys Pro  
           1                  5                  10

<210> 1763  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 1763  
 Met Leu Leu Leu Tyr Leu  
           1                  5

<210> 1764  
 <211> 554  
 <212> PRT  
 <213> Homo sapiens

<400> 1764  
 Gly Gly Gly Tyr Ala Leu Ala Leu Leu Val Leu Leu La Leu Gly Pro  
           1                  5                  10                  15  
 Gly Gly Trp Cys Leu Ala Glu Pro Pro Arg Asp Ser Leu Arg Glu Glu  
                   20                  25                  30  
 Leu Val Ile Thr Pro Leu Pro Ser Gly Asp Val Ala Ala Th Phe Gln  
                   35                  40                  45  
 Phe Arg Thr Arg Trp Asp Ser Glu Leu Gln Arg Glu Gly Val Ser His  
           50                  55                  60  
 Tyr Arg Leu Phe Pro Lys Ala Leu Gly Gln Leu Ile Ser Lys Tyr Ser  
           65                  70                  75                  80  
 Leu Arg Glu Leu His Leu Ser Phe Thr Gln Gly Phe Trp Arg Thr Arg  
                   85                  90                  95  
 Tyr Trp Gly Pro Pro Phe Leu Gln Ala Pro Ser Asp Thr Asp His Tyr  
                   100                  105                  110  
 Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr Glu Asn  
           115                  120                  125  
 Leu Thr Pro Trp Lys Lys Leu Leu Pro Cys Ser Ser Lys Ala Gly Leu  
           130                  135                  140

Ser Val Leu Leu Lys Ala Asp Arg Leu Phe His Thr Ser Tyr His Ser  
 145 150 155 160  
 Gln Ala Val His Ile Arg Pro Val Cys Arg Asn Ala Arg Cys Thr Ser  
 165 170 175  
 Ile Ser Trp Glu Leu Arg Gln Thr Leu Ser Val Val Phe Asp Ala Phe  
 180 185 190  
 Ile Thr Gly Gln Gly Lys Lys Asp Trp Ser Leu Phe Arg Met Phe Ser  
 195 200 205  
 Arg Thr Leu Thr Glu Pro Cys Pro Leu Ala Ser Glu Ser Arg Val Tyr  
 210 215 220  
 Val Asp Ile Thr Thr Tyr Asn Gln Asp Asn Glu Thr Leu Glu Val His  
 225 230 235 240  
 Pro Pro Pro Thr Thr Thr Tyr Gln Asp Val Ile Leu Gly Thr Arg Lys  
 245 250 255  
 Thr Tyr Ala Ile Tyr Asp Leu Leu Asp Thr Ala Met Ile Asn Asn Ser  
 260 265 270  
 Arg Asn Leu Asn Ile Gln Leu Lys Trp Lys Arg Pro Pro Glu Asn Glu  
 275 280 285  
 Ala Pro Pro Val Pro Phe Leu His Ala Gln Arg Tyr Val Ser Gly Tyr  
 290 295 300  
 Gly Leu Gln Lys Gly Glu Leu Ser Thr Leu Leu Tyr Asn Thr His Pro  
 305 310 315 320  
 Tyr Arg Ala Phe Pro Val Leu Leu Leu Asp Thr Val Pro Trp Tyr Leu  
 325 330 335  
 Arg Leu Tyr Val His Thr Leu Thr Ile Thr Ser Lys Gly Lys Glu Asn  
 340 345 350  
 Lys Pro Ser Tyr Ile His Tyr Gln Pro Ala Gln Asp Arg Leu Gln Pro  
 355 360 365  
 His Leu Leu Glu Met Leu Ile Gln Leu Pro Ala Asn Ser Val Thr Lys  
 370 375 380  
 Val Ser Ile Gln Phe Glu Arg Ala Leu Leu Lys Trp Thr Glu Tyr Thr  
 385 390 395 400  
 Pro Asp Pro Asn His Gly Phe Tyr Val Ser Pro Ser Val Leu Ser Ala  
 405 410 415  
 Leu Val Pro Ser Met Val Ala Ala Lys Pro Val Asp Trp Glu Glu Ser  
 420 425 430  
 Pro Leu Phe Asn Ser Leu Phe Pro Val Ser Asp Gly Ser Asn Tyr Phe  
 435 440 445

Val Arg Leu Tyr Thr Glu Pro Leu Leu Val Asn Leu Pro Thr Pro Asp  
450 455 460

Phe Ser Met Pro Tyr Asn Val Ile Cys Leu Thr Cys Thr Val Val Ala  
465 470 475 480

Val Cys Tyr Gly Ser Phe Tyr Asn Leu Leu Thr Arg Thr Phe Pro His  
485 490 495

Arg Gly Ala Pro His Arg Trp Pro Gly Gln Ala Ala Gly Gln Pro Tyr  
500 505 510

Pro Ala Arg Pro Ser Val Pro Pro Thr Leu Ile Leu Ala Leu Ser Ser  
515 520 525

Ser Cys Ser Cys Arg Phe Ser Leu Gly Arg Gly Ala Gln Gly Leu Phe  
530 535 540

Leu Pro Leu Ala Leu Leu Arg Val Gly Phe  
545 550

<210> 1765  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 1765  
Gly Glu Ile Phe Leu  
1 5

<210> 1766  
<211> 453  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (432)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1766  
Met Arg Met Ala Ser Ile Met Val Trp Val Met Ile Ile Met Val Ile  
1 5 10 15

Leu Val Leu Gly Tyr Gly Ile Phe His Cys Tyr Met Glu Tyr Ser Arg  
20 25 30

Leu Arg Gly Glu Ala Gly Ser Asp Val Ser Leu Val Asp Leu Gly Phe  
35 40 45

Gln Thr Asp Phe Arg Val Tyr Leu His Leu Arg Gln Thr Trp Leu Ala  
50 55 60

Phe Met Ile Ile Leu Ser Ile Leu Glu Val Ile Ile Ile Leu Leu Leu  
 65 70 75 80  
 Ile Phe Leu Arg Lys Arg Ile Leu Ile Ala Ile Ala Leu Ile Lys Glu  
 85 90 95  
 Ala Ser Arg Ala Val Gly Tyr Val Met Cys Ser Leu Leu Tyr Pro Leu  
 100 105 110  
 Val Thr Phe Phe Leu Leu Cys Leu Cys Ile Ala Tyr Trp Ala Ser Thr  
 115 120 125  
 Ala Val Phe Leu Ser Thr Ser Asn Glu Ala Val Tyr Lys Ile Phe Asp  
 130 135 140  
 Asp Ser Pro Cys Pro Phe Thr Ala Lys Thr Cys Asn Pro Glu Thr Phe  
 145 150 155 160  
 Pro Ser Ser Asn Glu Ser Arg Gln Cys Pro Asn Ala Arg Cys Gln Phe  
 165 170 175  
 Ala Phe Tyr Gly Gly Glu Ser Gly Tyr His Arg Ala Leu Leu Gly Leu  
 180 185 190  
 Gln Ile Phe Asn Ala Phe Met Phe Phe Trp Leu Ala Asn Phe Val Leu  
 195 200 205  
 Ala Leu Gly Gln Val Thr Leu Ala Gly Ala Phe Ala Ser Tyr Tyr Trp  
 210 215 220  
 Ala Leu Arg Lys Pro Asp Asp Leu Pro Ala Phe Pro Leu Phe Ser Ala  
 225 230 235 240  
 Phe Gly Arg Ala Leu Arg Tyr His Thr Gly Ser Leu Ala Phe Gly Ala  
 245 250 255  
 Leu Ile Leu Ala Ile Val Gln Ile Ile Arg Val Ile Leu Glu Tyr Leu  
 260 265 270  
 Asp Gln Arg Leu Lys Ala Ala Glu Asn Lys Phe Ala Lys Cys Leu Met  
 275 280 285  
 Thr Cys Leu Lys Cys Cys Phe Trp Cys Leu Glu Lys Phe Ile Lys Phe  
 290 295 300  
 Leu Asn Arg Asn Ala Tyr Ile Met Ile Ala Ile Tyr Gly Tr Asn Phe  
 305 310 315 320  
 Cys Thr Ser Ala Arg Asn Ala Phe Phe Leu Leu Met Arg Asn Ile Ile  
 325 330 335  
 Arg Val Ala Val Leu Asp Lys Val Thr Asp Phe Leu Leu Leu Gly  
 340 345 350  
 Lys Leu Leu Ile Val Gly Ser Val Gly Ile Leu Ala Phe Phe Phe Phe  
 355 360 365



Thr His Arg Ile Arg Ile Val Gln Asp Thr Ala Pro Pro Leu Asn Tyr  
 370 375 380  
 Tyr Trp Val Pro Ile Leu Thr Val Ile Val Gly Ser Tyr Leu Ile Ala  
 385 390 395 400  
 His Gly Phe Phe Ser Val Tyr Gly Met Cys Val Asp Thr Leu Phe Leu  
 405 410 415  
 Cys Phe Leu Glu Asp Leu Glu Arg Asn Asp Gly Ser Ala Glu Arg Xaa  
 420 425 430  
 Tyr Phe Met Ser Ser Thr Leu Lys Lys Leu Leu Asn Lys Thr Asn Lys  
 435 440 445  
 Lys Ala Ala Glu Ser  
 450

<210> 1767  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1767  
 Ala Ala Arg Glu Gly Ala Pro Pro Pro Cys Pro Thr Ser Ala Ile Gly  
 1 5 10 15  
 Arg Ala Ser Leu Ser Leu Arg Asp Xaa Gly Arg Gly Leu Arg Asp Ala  
 20 25 30  
 Arg Arg Glu Lys Arg Arg Gly Val Arg Gly Gln Asp Gly Gly Asp Tyr  
 35 40 45  
 Gly Trp Cys Gly Pro Ala Arg Gly Arg Gly Val Ala Ala Lys Gly Thr  
 50 55 60  
 Ala Glu Gly Pro Thr Gly Glu Asn Arg Ala Gln Gly Xaa Lys Xaa Gly  
 65 70 75 80

Val Arg Val Ala Val Glu Ala Ser Ser Val Arg Gly Pro Gly Arg Ala  
85 90 95

<210> 1768  
<211> 77  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1768  
Leu Gly Gly Tyr Ala Leu Ser Xaa Xaa Xaa Asn Arg Val Thr Asp Xaa  
1 5 10 15

Val Met Ile Tyr Phe Phe Ile Ile Ile Val Glu Tyr Phe Tyr Gly Lys  
20 25 30

Ile Phe Val Val Leu Ile Ile Pro Ile Lys Ile Met Pro Asn Thr Lys  
35 40 45

Tyr Glu Phe Tyr Asp Val His Phe Val Leu Gly Ile Lys Arg Lys Lys  
50 55 60

His Thr Ser Trp Lys Ser Val Ser Cys Phe Leu Leu Leu  
65 70 75

<210> 1769  
<211> 84  
<212> PRT  
<213> Homo sapiens

<400> 1769

Thr Tyr Ser Phe Cys Val Cys Glu Arg Ala Phe Val Phe Gly Ser Val  
 1 5 10 15  
 Pro Arg Ala Glu Val Glu Gln Gly Cys Thr Tyr His Gly Lys Gly Gly  
 20 25 30  
 Arg Lys Glu Asn Trp Ile Ala Cys Asp Leu Trp Trp Asn Leu Phe Leu  
 35 40 45  
 Leu Pro Arg Pro Phe Arg Pro Cys Leu Ile Ser Val Gly His Phe Arg  
 50 55 60  
 Leu Trp Gln Gly Arg Ala Gly Leu Gln Ser Glu Val Pro Ala Ser Ser  
 65 70 75 80  
 Leu Glu His Asn

<210> 1770  
 <211> 469  
 <212> PRT  
 <213> Homo sapiens

<400> 1770  
 Met Arg Pro Pro Gly Phe Arg Asn Phe Leu Leu Leu AlaSer Ser Leu  
 1 5 10 15  
 Leu Phe Ala Gly Leu Ser Ala Val Pro Gln Ser Phe Ser Pro Ser Leu  
 20 25 30  
 Arg Ser Trp Pro Gly Ala Ala Cys Arg Leu Ser Arg Ala GluSer Glu  
 35 40 45  
 Arg Arg Cys Arg Ala Pro Gly Gln Pro Pro Gly Ala Ala Leu Cys His  
 50 55 60  
 Gly Arg Gly Arg Cys Asp Cys Gly Val Cys Ile Cys His Val Thr Glu  
 65 70 75 80  
 Pro Gly Met Phe Phe Gly Pro Leu Cys Glu Cys His Glu Trp Val Cys  
 85 90 95  
 Glu Thr Tyr Asp Gly Ser Thr Cys Ala Gly His Gly Lys Cys Asp Cys  
 100 105 110  
 Gly Lys Cys Lys Cys Asp Gln Gly Trp Tyr Gly Asp Ala Cys Gln Tyr  
 115 120 125  
 Pro Thr Asn Cys Asp Leu Thr Lys Lys Lys Ser Asn Gln Met Cys Lys  
 130 135 140  
 Asn Ser Gln Asp Ile Ile Cys Ser Asn Ala Gly Thr Cys His Cys Gly  
 145 150 155 160  
 Arg Cys Lys Cys Asp Asn Ser Asp Gly Ser Gly Leu Val Tyr Gly Lys

[illegible]

465

<210> 1771  
<211> 211  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (195)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1771  
Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val Thr Ser  
1 5 10 15  
Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu Val Leu  
20 25 30  
Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Xaa Asp Leu Met  
35 40 45  
Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu Phe His  
50 55 60  
Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr Leu Gly  
65 70 75 80  
Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln Gly Leu Lys Gly Met Cys  
85 90 95  
Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu Gly Tyr Gly  
100 105 110  
Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu Ile Phe Asn  
115 120 125  
Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe  
130 135 140  
Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val  
145 150 155 160  
Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn  
165 170 175  
Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp  
180 185 190  
Glu Asp Xaa Tyr Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His

195 200 205

Asp Glu Leu  
210

<210> 1772  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 1772  
Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys  
1 5 10 15  
Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg  
20 25 30  
Val Ser Gln Lys Arg Gly His Ile  
35 40

<210> 1773  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 1773  
Met Gln Gly Lys Phe Met Lys Val Gln Val Tyr Arg Phe Leu Lys Tyr  
1 5 10 15  
Leu Leu Met Leu Leu Cys Met Phe Val Asn Arg Gly Met Ser Lys Asp  
20 25 30  
Ser Thr Lys Lys Pro Gly Gln Glu Lys Leu Lys Val Ser Leu Gly Ser  
35 40 45  
Ile Leu Asn Met Lys Ser Gln Arg Pro Leu Ser Trp Cys  
50 55 60

<210> 1774  
<211> 315  
<212> PRT  
<213> Homo sapiens

<400> 1774  
Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Glu Leu Thr Met  
1 5 10 15  
Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala  
20 25 30  
Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser

35					40					45					
Glu	Asn	Cys	Thr	Trp	Thr	Ile	Glu	Arg	Pro	Glu	Asn	Lys	Ser	Ile	Ag
50						55					60				
Ile	Ile	Phe	Ser	Tyr	Val	Gln	Leu	Asp	Pro	Asp	Gly	Ser	Cys	Glu	Ser
65					70					75					80
Glu	Asn	Ile	Lys	Val	Phe	Asp	Gly	Thr	Ser	Ser	Asn	Gly	Pro	Leu	Leu
				85					90					95	
Gly	Gln	Val	Cys	Ser	Lys	Asn	Asp	Tyr	Val	Pro	Val	Phe	Glu	Ser	Ser
			100					105					110		
Ser	Ser	Thr	Leu	Thr	Phe	Gln	Ile	Val	Thr	Asp	Ser	Ala	Arg	Ile	Gln
		115					120					125			
Arg	Thr	Val	Phe	Val	Phe	Tyr	Tyr	Phe	Phe	Ser	Pro	Asn	Ile	Ser	Ile
		130				135					140				
Pro	Asn	Cys	Gly	Gly	Tyr	Leu	Asp	Thr	Leu	Glu	Gly	Ser	Phe	Thr	Ser
145					150					155					160
Pro	Asn	Tyr	Pro	Lys	Pro	His	Pro	Glu	Leu	Ala	Tyr	Cys	Val	Trp	His
				165					170					175	
Ile	Gln	Val	Glu	Lys	Asp	Tyr	Lys	Ile	Lys	Leu	Asn	Phe	Lys	Glu	Ile
			180					185					190		
Phe	Leu	Glu	Ile	Asp	Lys	Gln	Cys	Lys	Phe	Asp	Phe	Leu	Ala	Ile	Tyr
		195					200					205			
Asp	Gly	Pro	Ser	Thr	Asn	Ser	Gly	Leu	Ile	Gly	Gln	Val	Cys	Gly	Arg
	210					215					220				
Val	Thr	Pro	Thr	Phe	Glu	Ser	Ser	Ser	Asn	Ser	Leu	Thr	Val	Val	Leu
225					230					235					240
Ser	Thr	Asp	Tyr	Ala	Asn	Ser	Tyr	Arg	Gly	Phe	Ser	Ala	Ser	Tyr	Thr
				245					250					255	
Ser	Ile	Tyr	Ala	Glu	Asn	Ile	Asn	Thr	Thr	Ser	Leu	Thr	Cys	Ser	Ser
			260					265					270		
Asp	Arg	Met	Arg	Val	Ile	Ile	Ser	Lys	Ser	Tyr	Leu	Glu	Ala	Phe	Asn
		275					280					285			
Ser	Asn	Gly	Asn	Asn	Leu	Gln	Leu	Lys	Asp	Pro	Thr	Trp	Gln	Thr	Lys
	290					295					300				
Ile	Ile	Lys	Cys	Cys	Gly	Ile	Phe	Cys	Pro	Ser					
305					310					315					

<210> 1775

<211> 72

<212> PRT  
<213> Homo sapiens

<400> 1775  
Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Asp Trp Thr Met  
1 5 10 15  
Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala  
20 25 30  
Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser  
35 40 45  
Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg  
50 55 60  
Ile Ile Phe Ser Tyr Val Pro Ala  
65 70

<210> 1776  
<211> 131  
<212> PRT  
<213> Homo sapiens

<400> 1776  
Met Leu Phe Val Phe Cys Cys Thr Val Phe Phe Val Cys Leu Phe Val  
1 5 10 15  
Tyr Leu Val Gly Phe Leu Glu Arg Glu Ile Trp Lys Arg Asp Ile His  
20 25 30  
Lys Ser Tyr Thr Pro Thr Phe Pro Phe Tyr His Asp Ile Gln Glu Glu  
35 40 45  
Thr Ser Arg Ala Lys Asn Gly Val Lys Lys Gly Ser Met Ala Gly Thr  
50 55 60  
Ser Lys Glu Leu Arg Ala Val Ala Leu Lys Asn Tyr Phe Phe Tyr Tyr  
65 70 75 80  
Tyr Phe Glu Ser Met Glu Val Phe His Ser Leu Gly Lys Gly Gly Lys  
85 90 95  
Ser Ala Phe Ile Phe Ile Gln Ser Tyr Leu Ile Thr Ser Lys Thr His  
100 105 110  
Met Leu Glu Ile Ala Phe Ala Gly Ala Lys Tyr Ile Asn Glu Gln Glu  
115 120 125  
Tyr Ile His  
130

<210> 1777



<211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 1777  
 Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp CysVal Leu Ser  
 1 5 10 15  
 Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe  
 20 25 30  
 Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg ArgLys Gly  
 35 40 45  
 Leu

<210> 1778  
 <211> 173  
 <212> PRT  
 <213> Homo sapiens

<400> 1778  
 Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys  
 1 5 10 15  
 Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr  
 20 25 30  
 Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp  
 35 40 45  
 Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys  
 50 55 60  
 Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu  
 65 70 75 80  
 Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Gly Cys Trp Ala  
 85 90 95  
 Arg Ala Gly Gly His Gln Gln Lys His Leu Leu Arg Pro Arg Arg Gly  
 100 105 110  
 Arg Glu Leu Trp Gln Val Pro Ala Ala Gly Val Pro Pro Asp Arg Gly  
 115 120 125  
 Met Pro Thr Pro Thr Arg Thr Asn Pro Ser Leu Ser Trp Arg Ala Ser  
 130 135 140  
 Ser Ser Arg Ala Arg Asn Arg Thr Ala Gly Arg Arg Ala Gly Ser Thr  
 145 150 155 160  
 Arg Thr Phe Trp Glu Cys Trp Ser Thr Pro Gly Pro Cys  
 165 170

<210> 1779  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 1779  
 Met Arg Cys Gly Glu Ile Ile Leu Ala Ser Val Leu Gly Leu Leu Leu  
   1                  5                  10                  15  
 Thr Leu Pro Pro Thr Ser Cys His Leu Asn Lys Ser Phe Pro Phe Leu  
                   20                  25                  30  
 Cys Leu Pro Trp Ser Gln Ala Leu Ser Leu Asn Pro His Ser Gly Asn  
                   35                  40                  45  
 Glu Ala Gly  
       50

<210> 1780  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 1780  
 Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val  
   1                  5                  10                  15  
 Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu  
                   20                  25                  30  
 Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys  
                   35                  40                  45

<210> 1781  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 1781  
 Ile Tyr Gln His Phe Ser Leu Trp Leu Gly  
   1                  5                  10

<210> 1782  
 <211> 4  
 <212> PRT

<213> Homo sapiens

<400> 1782

Met Phe Lys Met

1

<210> 1783

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1783

Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala  
1 5 10 15

Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile  
20 25 30

His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu  
35 40 45

Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile  
50 55 60

Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn  
65 70 75 80

<210> 1784

<211> 145

<212> PRT

<213> Homo sapiens

<400> 1784

Asp Pro Ser Gly Ser Phe Met Gly Arg Ser Val Met Met Arg Ile Leu  
1 5 10 15

Gly Ser Pro Val Phe Phe Pro Met His Asp Thr Ser Val Cys Leu Thr  
20 25 30

Tyr Pro Asn Phe Tyr Thr Val Val Ser Pro Thr Gly Ser Arg Pro Pro  
35 40 45

Ser Arg Asn Trp Asn Ser Glu Thr Pro Gly Asp Glu Glu Leu Gly Phe  
50 55 60

Glu Ala Ala Val Ala Ala Leu Gly Met Lys Thr Thr Val Ser Glu Ala  
65 70 75 80

Glu His Pro Leu Leu Cys Glu Gly Thr Arg Arg Glu Lys Gly Asp Leu  
85 90 95

Ala Leu Ala Leu Met Ile Thr Tyr Lys Asp Asp Gln Ala Lys Leu Lys  
100 105 110

Lys Lys Ile Ser Arg Ala Trp Trp Arg Ala Pro Val Val Pro AlaThr  
115 120 125

Arg Glu Ala Glu Val Gly Glu Leu Leu Glu Pro Arg Ser Leu Arg Leu  
130 135 140

Gln  
145

<210> 1785  
<211> 115  
<212> PRT  
<213> Homo sapiens

<400> 1785  
Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val  
1 5 10 15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe  
20 25 30

Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His  
35 40 45

Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg  
50 55 60

Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu  
65 70 75 80

Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu  
85 90 95

Thr His Leu Leu Gln Gln Pro Gly Lys Ala Val Leu Pro Leu Ala Pro  
100 105 110

Ala Gln Ser  
115

<210> 1786  
<211> 174  
<212> PRT  
<213> Homo sapiens

<400> 1786  
Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val  
1 5 10 15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe

	20		25		30										
Gly	Thr	Gln	Val	Pro	Cys	Leu	Ile	Pro	Gly	Ala	Leu	Aa	Ser	Leu	His
	35						40					45			
Arg	Gly	Thr	Ala	Leu	Gln	Leu	Ser	Tyr	Pro	Phe	Ser	Met	Ala	Gly	Arg
	50					55					60				
Thr	Ala	Glu	Arg	Pro	Cys	Ser	Met	Thr	Asn	His	Ser	Phe	His	Leu	Leu
	65				70					75					80
Ser	Ile	Tyr	Trp	Glu	Leu	Gly	Thr	Val	Leu	Ser	Val	Lys	Arg	Val	Leu
				85					90					95	
Thr	His	Leu	Leu	Gln	Gln	Pro	Gly	Lys	Ala	Gly	Ser	Ser	Val	Ser	Pro
		100						105					110		
Cys	Ser	Lys	Leu	Gly	Asp	Leu	Glu	His	Arg	Arg	Ser	Ser	Ala	Trp	Leu
		115					120						125		
Lys	Ala	His	Ser	Ser	Glu	Val	Gln	Ile	Leu	Cys	Pro	Ser	Trp	His	Pro
	130					135					140				
Ser	Leu	Gly	Gly	Ser	Gly	Val	Gly	Ser	Leu	Gln	Ser	Val	Pro	Gly	Gly
	145				150					155					160
Trp	Met	Thr	Ser	Cys	Ser	Leu	Pro	Ala	Thr	Pro	Arg	Phe	Pro		
				165					170						

<210> 1787

<211> 228

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE  
 <222> (205)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (209)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (214)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1787  
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val  
 1 5 10 15  
 Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe  
 20 25 30  
 Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His  
 35 40 45  
 Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg  
 50 55 60  
 Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu  
 65 70 75 80  
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Xaa Lys Arg Val Leu  
 85 90 95  
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro  
 100 105 110  
 Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu  
 115 120 125  
 Lys Ala His Ser Ser Xaa Val Gln Ile Leu Cys Pro Ser Trp His Pro  
 130 135 140  
 Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly  
 145 150 155 160  
 Trp Met Thr Lys Leu Gln Pro Ser Arg Xaa Pro Thr Ile Ser Ile Ala  
 165 170 175  
 Gln Trp Ser Gln Lys Glu Thr Asp His Phe Thr Asp Gln Arg Asn Lys  
 180 185 190  
 Gly Ala Xaa Leu Leu Asn Pro Gly Ala Ser Asp Arg Xaa Lys Pro Glu  
 195 200 205  
 Xaa Arg Thr Lys Lys Xaa Pro Val Asn Ser Glu Pro Gly Glu Thr Leu  
 210 215 220

Pro Phe Thr Asn  
225

<210> 1788  
<211> 84  
<212> PRT  
<213> Homo sapiens

<400> 1788  
Asp Asn Phe Leu Leu Gly Val Ala Trp Phe Phe Arg Gly Arg Gly Ser  
1 5 10 15  
Ala His Val Gly Val Val Ser Arg Gln Lys Gln Trp Glu Glu Gly Thr  
20 25 30  
Ala Lys His Ala Ala Trp Asp Tyr Gly Cys Pro Gln Ser Cys Ser Phe  
35 40 45  
Ser Lys Gly Val Phe Cys Leu Phe Leu Arg Gln Gly His Thr Leu Ser  
50 55 60  
Pro Arg Met Glu Cys Ser Gly Pro Ile Leu Ala His Cys Asn Leu Glu  
65 70 75 80  
Leu Leu Gly Ser

<210> 1789  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 1789  
Met Ser Arg Lys Ser Leu Ala Phe Pro Ile Ile Cys Ser Tyr Leu Cys  
1 5 10 15  
Phe Leu Thr Val Ala Thr Cys Ser Ile Ala Cys Thr Thr Val Phe Phe  
20 25 30  
Ala Asn Leu Arg His Thr Arg Tyr Ile Cys Ile Glu Leu Ser Ala Leu  
35 40 45  
Glu Thr Ser Gly Val Ile Ser Pro Gln Ile Asn Asn Val Pro Glu Val  
50 55 60  
His Gly Lys Tyr Ser  
65

<210> 1790  
<211> 52  
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1790

Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys  
1 5 10 15

Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile  
20 25 30

Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro  
35 40 45

Gln Tyr Phe Pro  
50

<210> 1791

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1791

Ser Leu Lys His Phe Trp Ser Gln Gly Phe Trp Ile Lys Asn Thr Gln  
1 5 10 15

Cys Ala Thr Cys Arg Met Val Val Ala Arg Trp Glu Glu Arg Met Glu  
20 25 30

Ser Tyr Cys Leu Met Ile Gln Cys Phe Arg Leu Gly Arg Trp Lys Val  
35 40 45

Leu Glu Met Cys Asp Gly Tyr Gly Cys Ala Thr Met Gly Arg Tyr Leu  
50 55 60

Val Leu Leu Asn Cys Ala His Leu Lys Met Val Lys Met Ile Asn Phe  
65 70 75 80

Val Tyr Val Leu Lys Gln  
85

<210> 1792

<211> 54

<212> PRT

<213> Homo sapiens



<400> 1792  
Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys  
1 5 10 15  
Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly  
20 25 30  
Arg Arg Arg Lys Asn Ser Phe Leu Phe Leu Leu Ser Phe Ser Ile Glu  
35 40 45  
Phe Leu Leu Cys Val Trp  
50

<210> 1793  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 1793  
Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys  
1 5 10 15  
Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly  
20 25 30  
Lys Glu Lys Lys Lys Leu Leu Phe Ile Phe Thr Phe Phe Gln His  
35 40 45

<210> 1794  
<211> 102  
<212> PRT  
<213> Homo sapiens

<400> 1794  
Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu  
1 5 10 15  
Trp Leu Leu Leu Lys Ala Gly Ala Val Arg Gly Ala Arg Ala Gly Pro  
20 25 30  
Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg  
35 40 45  
Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln Lys Leu Leu Gly Gln  
50 55 60  
Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro  
65 70 75 80  
Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val Cys Thr Gly  
85 90 95

Leu Ala Arg Trp Met Val  
100

<210> 1795  
<211> 53  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1795  
Met Cys Lys Ala Val Cys Lys His Arg Leu Arg Leu Phe Ala Val Ser  
1 5 10 15  
Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu  
20 25 30  
Trp Pro Val Arg Leu Ser Leu Ala Xaa Arg Pro Val Gln Leu Gln Gln  
35 40 45  
Arg Arg Ser His Cys  
50

<210> 1796  
<211> 575  
<212> PRT  
<213> Homo sapiens

<400> 1796  
Met Arg Val Leu Val Val Thr Ile Ala Pro Ile Tyr Trp Ala Leu Ala  
1 5 10 15  
Arg Glu Ser Gly Glu Ala Leu Asn Gly His Ser Leu Thr Gly Gly Lys  
20 25 30  
Phe Arg Gln Glu Ser His Val Glu Phe Ala Thr Gly Glu Leu Leu Thr  
35 40 45  
Met Thr Gln Trp Pro Gly Val Trp Ile Pro Met Ala Ser Cys Ser Ser  
50 55 60  
Thr Trp Trp Ser Met Ala Leu Ser Pro Asp Ser Leu Ala Asp Ala Asp  
65 70 75 80  
Leu Gln Val Gln Asp Phe Glu Glu His Tyr Val Gln Thr Gly Pro Gly  
85 90 95  
Gln Leu Phe Val Gly Ser Thr Gln Arg Phe Phe Gln Gly Gly Leu Pro  
100 105 110

Ser Phe Leu Arg Cys Asn His Ser Ile Gln Tyr Asn Ala Ala Arg Gly  
 115 120 125  
 Pro Gln Pro Gln Leu Val Gln His Leu Arg Ala Ser Ala Ile SerSer  
 130 135 140  
 Ala Phe Asp Pro Glu Ala Glu Ala Leu Arg Phe Gln Leu Ala Thr Ala  
 145 150 155 160  
 Leu Gln Ala Glu Glu Asn Glu Val Gly Cys Pro Glu Gly Phe Glu Leu  
 165 170 175  
 Asp Ser Gln Gly Ala Phe Cys Val Asp Val Asp Glu Cys Ala Trp Asp  
 180 185 190  
 Ala His Leu Cys Arg Glu Gly Gln Arg Cys Val Asn Leu Leu Gly Ser  
 195 200 205  
 Tyr Arg Cys Leu Pro Asp Cys Gly Pro Gly Phe Arg Val Ala Asp Gly  
 210 215 220  
 Ala Gly Cys Glu Asp Val Asp Glu Cys Leu Glu Gly Leu Asp Asp Cys  
 225 230 235 240  
 His Tyr Asn Gln Leu Cys Glu Asn Thr Pro Gly Gly His Arg Cys Ser  
 245 250 255  
 Cys Pro Arg Gly Tyr Arg Met Gln Gly Pro Ser Leu Pro Cys Leu Asp  
 260 265 270  
 Val Asn Glu Cys Leu Gln Leu Pro Lys Ala Cys Ala Tyr Gln Cys His  
 275 280 285  
 Asn Leu Gln Gly Ser Tyr Arg Cys Leu Cys Pro Pro Gly Gln Thr Leu  
 290 295 300  
 Leu Arg Asp Gly Lys Ala Cys Thr Ser Leu Glu Arg Asn Gly Gln Asn  
 305 310 315 320  
 Val Thr Thr Val Ser His Arg Gly Pro Leu Leu Pro Trp Leu Arg Pro  
 325 330 335  
 Trp Ala Ser Ile Pro Gly Thr Ser Tyr His Ala Trp Val Ser Leu Arg  
 340 345 350  
 Pro Gly Pro Met Ala Leu Ser Ser Val Gly Arg Ala Trp Cys Pro Pro  
 355 360 365  
 Gly Phe Ile Arg Gln Asn Gly Val Cys Thr Asp Leu Asp Glu Cys Arg  
 370 375 380  
 Val Arg Asn Leu Cys Gln His Ala Cys Arg Asn Thr Glu Gly Ser Tyr  
 385 390 395 400  
 Gln Cys Leu Cys Pro Ala Gly Tyr Arg Leu Leu Pro Ser Gly Lys Asn  
 405 410 415

Cys Gln Asp Ile Asn Glu Cys Glu Glu Glu Ser Ile Glu Cys Gly Pro  
 420 425 430  
 Gly Gln Met Cys Phe Asn Thr Arg Gly Ser Tyr Gln Cys Val Asp Thr  
 435 440 445  
 Pro Cys Pro Ala Thr Tyr Arg Gln Gly Pro Ser Pro Gly Thr Cys Phe  
 450 455 460  
 Arg Arg Cys Ser Gln Asp Cys Gly Thr Gly Gly Pro Ser Thr Leu Gln  
 465 470 475 480  
 Tyr Arg Leu Leu Pro Leu Pro Leu Gly Val Arg Ala His His Asp Val  
 485 490 495  
 Ala Arg Leu Thr Ala Phe Ser Glu Val Gly Val Pro Ala Asn Arg Thr  
 500 505 510  
 Glu Leu Ser Met Leu Glu Pro Asp Pro Arg Ser Pro Phe Ala Leu Arg  
 515 520 525  
 Pro Leu Arg Ala Gly Leu Gly Ala Val Tyr Thr Arg Arg Ala Leu Thr  
 530 535 540  
 Arg Ala Gly Leu Tyr Arg Leu Thr Val Arg Ala Ala Pro Arg His  
 545 550 555 560  
 Gln Ser Val Phe Val Leu Leu Ile Ala Val Ser Pro Tyr Pro Tyr  
 565 570 575

<210> 1797  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 1797  
 Met Arg Val Leu Val Val Thr Ile Ala Pro Ile Tyr Trp Ala Leu Ala  
 1 5 10 15  
 Arg Glu Ser Gly Glu Ala Leu Asn Gly His Ser Leu Thr Gly Gly Lys  
 20 25 30  
 Phe Arg Gln Ser His Thr Trp Ser Leu Leu Gln Gly Ala Ala His Asp  
 35 40 45  
 Asp Pro Val Ala Arg Gly Leu Asp Pro Asp Gly Leu Leu Leu Asp  
 50 55 60  
 Val Val Val Asn Gly Val Val Pro Gly Arg Ala Trp Leu Thr Gln Ile  
 65 70 75 80  
 Phe Lys Cys Arg Thr Leu Lys Lys His Tyr Val Gln Thr Arg Ala Trp  
 85 90 95  
 Pro Ala Val Arg Gly Leu His Thr Ala Leu Leu Pro Gly Arg Pro Pro

100                      105                      110  
 Leu Val Pro Thr Leu Gln Pro Gln His Pro Val Gln Arg Gly Pro Gly  
                          115                      120                      125  
 Pro Pro Ala Pro Ala Gly Ala Ala Pro Ala Gly Leu Ser Tyr Gln Leu  
                          130                      135                      140  
 Gly Leu  
 145

<210> 1798  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1798  
 Met Trp Asp Thr Phe Val Arg Asp Arg Asp Phe Ser Ala Tyr Leu Phe  
                          1                      5                      10                      15  
 Leu His Leu Leu Pro Pro Leu Ser Ala Cys Gly Leu Asn Ala Ser Leu  
                          20                      25                      30  
 Tyr Thr Ala Thr Pro Ile Val Trp Val Xaa His Thr Ser Pro Gln Asp  
                          35                      40                      45

<210> 1799  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1799  
 Met Gln Ala Pro Leu Gln Asp Cys Gly Arg Ser Val Ser Leu Arg Leu  
                          1                      5                      10                      15  
 Ala Cys Val Leu Ala Pro Leu Thr Thr Ser Ser Arg Gly Cys His Leu  
                          20                      25                      30  
 Gln Leu Pro Gln Asp Lys Gly Lys Ala Arg Xaa Asp Ser  
                          35                      40                      45

<210> 1800  
 <211> 305  
 <212> PRT  
 <213> Homo sapiens

<400> 1800  
 Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp  
   1                  5                  10                  15  
 Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro  
           20                  25                  30  
 Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly  
           35                  40                  45  
 Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro  
   50                  55                  60  
 Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala  
   65                  70                  75                  80  
 Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val  
           85                  90                  95  
 Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr  
           100                  105                  110  
 Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp  
   115                  120                  125  
 Lys Ile Thr Glu Leu Arg Val Gln Lys His Ser Ser Lys Leu Leu Lys  
   130                  135                  140  
 Thr Lys Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr  
   145                  150                  155                  160  
 Ser Thr Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr  
           165                  170                  175  
 Leu Gly Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala  
           180                  185                  190  
 Ile Ile Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala  
   195                  200                  205  
 Tyr Ile Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu  
   210                  215                  220  
 Ala Ala Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met  
   225                  230                  235                  240  
 Arg Val Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser  
           245                  250                  255

Gln Asn Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu  
260 265 270

Tyr Gln Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp  
275 280 285

Thr Val Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val  
290 295 300

Cys  
305

<210> 1801  
<211> 97  
<212> PRT  
<213> Homo sapiens

<400> 1801  
Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr  
1 5 10 15

Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe  
20 25 30

Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln  
35 40 45

Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln  
50 55 60

Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Gly  
65 70 75 80

Cys Gln Gln Ala Pro Gly Thr Arg Pro Ser Leu Pro Pro Gly Ala Val  
85 90 95

Gln

<210> 1802  
<211> 219  
<212> PRT  
<213> Homo sapiens

<400> 1802  
Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala  
1 5 10 15

Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro  
20 25 30

Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val  
35 40 45

Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile  
 50 55 60  
 Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr  
 65 70 75 80  
 Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe  
 85 90 95  
 Leu Asn Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile  
 100 105 110  
 Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu  
 115 120 125  
 Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu  
 130 135 140  
 Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe  
 145 150 155 160  
 Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn  
 165 170 175  
 Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp  
 180 185 190  
 Lys Asn Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro  
 195 200 205  
 Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser  
 210 215

<210> 1803

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (197)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1803

Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala  
 1 5 10 15

Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro  
 20 25 30



Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val  
 35 40 45  
 Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile  
 50 55 60  
 Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr  
 65 70 75 80  
 Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe  
 85 90 95  
 Leu Asn Arg Ala Leu Asp Ile Xaa Asn Thr Ser Leu Val Phe Pro Ile  
 100 105 110  
 Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu  
 115 120 125  
 Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu  
 130 135 140  
 Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe  
 145 150 155 160  
 Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn  
 165 170 175  
 Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp  
 180 185 190  
 Lys Asn Val Leu Xaa Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro  
 195 200 205  
 Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser  
 210 215

<210> 1804  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1804  
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala  
 1 5 10 15  
 Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu  
 20 25 30  
 Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser  
 35 40 45  
 Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala  
 50 55 60

Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu  
 65 70 75 80  
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser  
 85 90 95  
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly  
 100 105 110  
 Ala Ala Leu Gly Ala Ala Ser Ala His  
 115 120

<210> 1805

<211> 218

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (217)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1805

Met Val Ser Trp Met Ile Cys Arg Leu Val Val Leu Val Phe Gly Met  
 1 5 10 15  
 Leu Cys Pro Ala Tyr Ala Ser Tyr Lys Ala Val Lys Thr Lys Asn Ile  
 20 25 30  
 Arg Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe Ala Leu Phe  
 35 40 45  
 Met Ala Ala Glu Ile Val Thr Asp Ile Phe Ile Ser Trp Phe Pro Phe  
 50 55 60  
 Tyr Tyr Glu Ile Lys Met Ala Phe Val Leu Trp Leu Leu Ser Pro Tyr  
 65 70 75 80  
 Thr Lys Gly Ala Ser Cys Phe Thr Ala Ser Leu Ser Thr Arg Pro Cys  
 85 90 95  
 Pro Ala Met Arg Arg Arg Ser Thr Arg Thr Ser Cys Arg Pro Arg Ser  
 100 105 110  
 Ala Ala Thr Arg Pro Cys Ser Ala Ser Gly Ser Gly Ala Ser Thr Leu  
 115 120 125  
 Pro Pro Pro Leu Leu Cys Arg Leu Pro Pro Xaa Val Arg Gly Arg Trp  
 130 135 140

Pro Ala Gly Cys Gly Ala Ser Pro Cys Arg Thr Cys AlaPro Ser Leu  
 145 150 155 160  
 Thr His Leu Pro Leu Pro Thr Met Thr Pro Ser Thr Trp Arg Thr Arg  
 165 170 175  
 Cys Pro Thr Gly Gly His Pro Leu Gly Thr Gly ProGly Ala Cys Arg  
 180 185 190  
 Thr Ala Thr Pro Arg Met Ser Val Gly Gln Ile Leu Arg Gln Ser Pro  
 195 200 205  
 Gly Arg Gln Pro Gly Pro Glu Arg Xaa Pro  
 210 215

<210> 1806  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 1806  
 Met Val Ile Ser Ile Phe Phe Ser Leu Pro Phe Ser Thr Ser Ala Tyr  
 1 5 10 15  
 Thr Leu Ile Ala Pro Asn Ile Asn Arg Arg AsnGlu Ile Gln Arg Ile  
 20 25 30  
 Ala Asp Arg Ser Trp Pro Thr Trp Arg Ser Gly Arg Ser Arg Thr Glu  
 35 40 45  
 Leu Asn Arg Phe Thr Trp Cys Pro Asp Gly  
 50 55

<210> 1807  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 1807  
 Met Ile Ile Ala Asn Ile Phe Met Asn Pro Leu Leu Cys Ala Gly Tyr  
 1 5 10 15  
 Leu Phe Cys Phe Ala Tyr Thr Leu Ile HisLeu Ile Leu Leu Thr Thr  
 20 25 30  
 Ser Glu Val Cys Ser Ile Thr Ala Pro Phe Phe Thr Ala Val Leu Gln  
 35 40 45  
 Ser Ser Ala Cys Pro Ser Thr His Trp Pro Glu  
 50 55

<210> 1808  
 <211> 327  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (300)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1808  
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gl  
 1 5 10 15  
 Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg  
 20 25 30  
 Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His  
 35 40 45  
 Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala  
 50 55 60  
 Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly  
 65 70 75 80  
 Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val  
 85 90 95  
 Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg His  
 100 105 110  
 Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg  
 115 120 125  
 Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Ala Thr Tyr Gly His  
 130 135 140  
 Tyr Ala Pro Gly Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr  
 145 150 155 160  
 Lys Lys Met Leu Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln  
 165 170 175  
 Asp Gly Asp Ser Met Ala Thr Arg Glu Glu Leu Thr Ala Phe Leu His  
 180 185 190  
 Pro Glu Glu Phe Pro His Met Arg Asp Ile Val Ile Ala Glu Thr Leu  
 195 200 205  
 Glu Asp Leu Asp Arg Asn Lys Asp Gly Tyr Val Gln Val Glu Glu Tyr  
 210 215 220  
 Ile Ala Asp Leu Tyr Ser Ala Glu Pro Gly Glu Glu Glu Pro Ala Trp  
 225 230 235 240  
 Val Gln Thr Glu Arg Gln Gln Phe Arg Asp Phe Arg Asp Leu Asn Lys

	245		250		255
Asp Gly His	Leu Asp Gly Ser	Glu Val Gly His	Trp Val Leu Pro	Pro	
	260		265		270
Ala Gln Asp	Gln Pro Leu Val	Glu Ala Asn His	Leu Leu His	Glu Ser	
	275		280		285
Asp Thr Asp	Lys Asp Gly Arg	Leu Ser Lys Ala	Xaa Ile Leu Gly	Asn	
	290		295		300
Trp Asn Met	Phe Val Gly Ser	Gln Ala Thr Asn	Tyr Gly Glu Asp	Leu	
	305		310		315
Thr Arg His	His Asp Glu Leu				
		325			

<210> 1809  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (148)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (165)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1809  
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly  
 1 5 10 15

Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg  
 20 25 30

Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His



Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile Leu Val Phe  
 85 90 95  
 Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp Lys Arg Pro  
 100 105 110  
 Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly Thr Glu Gln  
 115 120 125  
 Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn Met Asp Lys  
 130 135 140  
 Ser Asp Ser Glu Leu Asn Xaa Glu Val Ala Ala Arg Lys Arg Asn Leu  
 145 150 155 160  
 Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met  
 165 170

<210> 1811  
 <211> 509  
 <212> PRT  
 <213> Homo sapiens

<400> 1811  
 Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp  
 1 5 10 15  
 Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser  
 20 25 30  
 His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro  
 35 40 45  
 Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser  
 50 55 60  
 Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val  
 65 70 75 80  
 Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp  
 85 90 95  
 Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly  
 100 105 110  
 Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg  
 115 120 125  
 Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser  
 130 135 140  
 Phe Ala Gly Lys Asn Arg Val Trp Val Ile Arg Ala Pro His Ala Ser  
 145 150 155 160  
 Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr

165 170 175  
 Cys Glu Leu Ala Glu Arg His Ile Gln Gn Ile Val Leu Phe His Gln  
 180 185 190  
 Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln  
 195 200 205  
 Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser  
 210 215 220  
 Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys  
 225 230 235 240  
 Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Leu Ala  
 245 250 255  
 Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile  
 260 265 270  
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Lys  
 275 280 285  
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro  
 290 295 300  
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val  
 305 310 315 320  
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala  
 325 330 335  
 Thr Ala Pro Ala Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr  
 340 345 350  
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala  
 355 360 365  
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr  
 370 375 380  
 Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr  
 385 390 395 400  
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro  
 405 410 415  
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg  
 420 425 430  
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr  
 435 440 445  
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg  
 450 455 460  
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val



465 470 475 480

Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys  
485 490 495

Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Val  
500 505

<210> 1812  
<211> 554  
<212> PRT  
<213> Homo sapiens

<400> 1812  
Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp Leu Val Cys Gly  
1 5 10 15  
Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser His Gly Gly Arg  
20 25 30  
Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro Ala Arg Phe Leu  
35 40 45  
Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser Thr Leu Glu Glu  
50 55 60  
Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val Pro Val Leu Arg  
65 70 75 80  
Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp Ile Asn Gly Ala  
85 90 95  
Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly Ser Pro Arg Glu  
100 105 110  
Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg Met Leu Arg Phe  
115 120 125  
Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser Phe Ala Gly Lys  
130 135 140  
Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser Glu Gly Tyr Tyr  
145 150 155 160  
Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr Cys Glu Leu Ala  
165 170 175  
Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln Ala Gly Glu Glu  
180 185 190  
Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln Ile Leu Glu Gln  
195 200 205  
Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser Phe Leu Lys Leu  
210 215 220

Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys Thr Leu Gln Val  
 225 230 235 240  
 Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala Met Tyr Glu Val  
 245 250 255  
 Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile Arg Gln Lys Gly  
 260 265 270  
 Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly Gln Val Val Ala  
 275 280 285  
 Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro Ser Gln Gly Ser  
 290 295 300  
 Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val Pro Pro Thr Arg  
 305 310 315 320  
 Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala Thr Ala Pro Ala  
 325 330 335  
 Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala  
 340 345 350  
 Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys  
 355 360 365  
 Cys Lys Thr Tyr Asp His His Trp Leu Ser His His Ala Glu Ala Leu  
 370 375 380  
 Asp Pro Leu Thr Leu Pro Thr Gly Pro Leu Gln Pro Leu Arg Val Ile  
 385 390 395 400  
 Thr Ala Arg Arg Pro Ser Val Ser Arg Glu Ser Leu Pro Ser Ile Pro  
 405 410 415  
 Gly Arg Ile Ser Thr Gly Arg Gly His Arg Gln Pro Gly Gly Pro Ala  
 420 425 430  
 Arg Pro Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr Thr Ile  
 435 440 445  
 Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg Asp Asn  
 450 455 460  
 Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val Val Pro  
 465 470 475 480  
 Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys Ala Gln  
 485 490 495  
 Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu Ser Arg  
 500 505 510  
 Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn Val Pro  
 515 520 525

Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu Lys Pro  
530 535 540

Glu Lys Glu Lys Lys Lys Lys Lys Lys Lys  
545 550

<210> 1813  
<211> 247  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (166)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1813  
Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu Leu Leu  
1 5 10 15

Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu Lys Val  
20 25 30

Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu Val Gly  
35 40 45

Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly Arg Glu  
50 55 60

Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His Thr Gly  
65 70 75 80

Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met Asp Lys  
85 90 95

Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys Glu Ala  
100 105 110

Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala Gly Lys  
115 120 125

Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His Gln Ala  
130 135 140

Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala Ala Asp  
145 150 155 160

Gln Ala Gly Lys Glu Xaa Glu Lys Leu Gly Pro Ser Ala His His Ala  
165 170 175

Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly Val Asn  
180 185 190

Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His Gln Ser

195                                      200                                      205  
 Gly Ser Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu Ala Ser  
     210                                      215                                      220  
 Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu Trp Arg  
 225                                      230                                      235                                      240  
 Ser Val Ala Asn Ile Met Pro  
                                     245

<210> 1814  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 1814  
 Met Ala Gly Cys Cys Leu Lys Leu Phe Gly Val Leu Ser Leu Cys Phe  
     1                                      5                                      10                                      15  
 Leu Cys Gly Leu Ile Ser Ile Glu Arg Val Ile Cys Asn Pro Val Ser  
                                     20                                      25                                      30  
 Ala Asp Phe Gln Val Ser Thr Phe Cys Gln Arg His Cys Leu Leu Arg  
                                     35                                      40                                      45  
 Ser Lys Val Met Phe Pro Ile Arg Gly  
     50                                      55

<210> 1815  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 1815  
 Met Phe Thr Leu Leu Leu Ser Ser Phe Phe Leu Gln His Cys Leu Gln  
     1                                      5                                      10                                      15  
 Asn Asn Leu Tyr Ala Ser Glu Arg Glu Gln Ile Phe Ser Asn Phe Leu  
                                     20                                      25                                      30  
 Gln Leu Ser Ser Leu Lys Arg Arg Ile Cys  
                                     35                                      40

<210> 1816  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 1816  
 Leu Leu Leu Ser Ser Phe

1

5

&lt;210&gt; 1817

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1817

Met Leu Val Ser Met Cys Met Gly Leu Leu Phe Leu Gln Val Gly Lys  
 1 5 10 15

Gln Cys Ile Ala Phe Phe Tyr Thr Glu Ser Thr Arg Arg Pro Lys His  
 20 25 30

Leu Lys Thr Met Gly Ser Gly Tyr Ala  
 35 40

&lt;210&gt; 1818

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1818

Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu  
 1 5 10 15

Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys  
 20 25 30

Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys  
 35 40 45

Gly Asp Leu Leu Asn Ala His Tyr Asp Gly Tyr Leu Ala Lys Asp Gly  
 50 55 60

Ser Lys Phe Tyr Cys Ser Arg Thr Gln Asn Glu Gly His Pro Lys Trp  
 65 70 75 80

Phe Val Leu Gly Val Gly Gln Val Ile Lys Gly Leu Asp Ile Ala Met  
 85 90 95

Thr Asp Met Cys Pro Gly Glu Lys Arg Lys Val Val Ile Pro Pro Ser  
 100 105 110

Phe Ala Tyr Gly Lys Glu Gly Tyr Ala Glu Gly Lys Ile Pro Pro Asp  
 115 120 125

Ala Thr Leu Ile Phe Glu Ile Glu Leu Tyr Ala Val Thr Lys Gly Pro  
 130 135 140

Arg Ser Ile Glu Thr Phe Lys Gln Ile Asp Met Asp Asn Asp Arg Gln  
 145 150 155 160

Leu Ser Lys Ala Glu Ile Asn Leu Tyr Leu Gln Arg Glu Phe Glu Lys  
 165 170 175  
 Asp Glu Lys Pro Arg Asp Lys Ser Tyr Gln Asp Ala Val Leu Glu Asp  
 180 185 190  
 Ile Phe Lys Lys Asn Asp His Asp Gly Asp Gly Phe Ile Ser Pro Lys  
 195 200 205  
 Glu Tyr Asn Val Tyr Gln His Asp Glu Leu  
 210 215

<210> 1819  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 1819  
 Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu  
 1 5 10 15  
 Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys  
 20 25 30  
 Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys  
 35 40 45  
 Gly Asp Leu Leu Lys Cys Pro Leu  
 50 55

<210> 1820  
 <211> 606  
 <212> PRT  
 <213> Homo sapiens

<400> 1820  
 Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro  
 1 5 10 15  
 Ile Leu Ile Leu Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly  
 20 25 30  
 Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys  
 35 40 45  
 Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu  
 50 55 60  
 Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly  
 65 70 75 80  
 Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg  
 85 90 95

Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser  
100 105 110  
Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr  
115 120 125  
Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr  
130 135 140  
Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp  
145 150 155 160  
Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe  
165 170 175  
Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu  
180 185 190  
Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp  
195 200 205  
Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Arg Gly Asp Asp  
210 215 220  
Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile  
225 230 235 240  
Asn Ser Met Val Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile  
245 250 255  
Leu Met Arg Val Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu  
260 265 270  
Glu Thr Thr Ser Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn  
275 280 285  
Gly Trp Lys Ile Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg  
290 295 300  
Gly Leu Leu Cys Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu  
305 310 315 320  
Gly Thr Gly Ile Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His  
325 330 335  
Arg His Gly Ala Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr  
340 345 350  
Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly  
355 360 365  
Gly Glu Arg Trp Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser  
370 375 380  
Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala  
385 390 395 400

Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Tr Ile Leu Leu Leu Leu  
 405 410 415  
 Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile  
 420 425 430  
 Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Po Cys Arg Thr Lys  
 435 440 445  
 Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val  
 450 455 460  
 Ile His Met Thr Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val  
 465 470 475 480  
 Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr  
 485 490 495  
 Leu Tyr Gly Ile Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gy  
 500 505 510  
 Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp  
 515 520 525  
 Tyr Arg Trp Trp Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu  
 530 535 540  
 Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met  
 545 550 555 560  
 Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr  
 565 570 575  
 Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser  
 580 585 590  
 Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp  
 595 600 605

<210> 1821  
 <211> 295  
 <212> PRT  
 <213> Homo sapiens

<400> 1821  
 Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly  
 1 5 10 15  
 Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg  
 20 25 30  
 Arg Pro Glu Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg  
 35 40 45



Ala Arg Leu Gln Gly Ser Ala Thr Ala AlaGlu Ala Ser Leu Leu Arg  
 50 55 60  
 Arg Thr His Leu Cys Ser Leu Ser Lys Ser Asp Thr Arg Leu His Glu  
 65 70 75 80  
 Leu His Arg Gly Pro Arg Ser Ser Arg Ala Leu ArgPro Ala Ser Met  
 85 90 95  
 Asp Leu Leu Arg Pro His Trp Leu Glu Val Ser Arg Asp Ile Thr Gly  
 100 105 110  
 Pro Gln Ala Ala Pro Ser Ala Phe Pro His Gln Glu LeuPro Arg Ala  
 115 120 125  
 Leu Pro Ala Ala Ala Ala Thr Ala Gly Cys Ala Gly Leu Glu Ala Thr  
 130 135 140  
 Tyr Ser Asn Val Gly Leu Ala Ala Leu Pro Gly Val Ser Leu Ala Ala  
 145 150 155 160  
 Ser Pro Val Val Ala Glu Tyr Ala Arg Val Gln Lys Arg Lys Gly Thr  
 165 170 175  
 His Arg Ser Pro Gln Glu Pro Gln Gln Gly Lys Thr Glu Val Thr Pro  
 180 185 190  
 Ala Ala Gln Val Asp Val Leu Tyr Ser Arg Val Cys Lys Pro Lys Arg  
 195 200 205  
 Arg Asp Pro Gly Pro Thr Thr Asp Pro Leu Asp Pro Lys Gly Gln Gly  
 210 215 220  
 Ala Ile Leu Ala Leu Ala Gly Asp Leu Ala Tyr Gln Thr Leu Pro Leu  
 225 230 235 240  
 Arg Ala Leu Asp Val Asp Ser Gly Pro Leu Glu Asn Val Tyr Glu Ser  
 245 250 255  
 Ile Arg Glu Leu Gly Asp Pro Ala Gly Arg Ser Ser Thr Cys Gly Ala  
 260 265 270  
 Gly Thr Pro Pro Ala Ser Ser Cys Pro Ser Leu Gly Arg Gly Trp Arg  
 275 280 285  
 Pro Leu Pro Ala Ser Leu Pro  
 290 295

<210> 1822

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1822

Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly

1                      5                      10                      15  
 Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg  
                     20                      25                      30  
 Ser Pro Arg Thr Leu  
                     35

<210> 1823  
 <211> 172  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (107)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (132)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1823  
 Met Ser Phe Leu Cys Leu Val Val Leu Tyr Tyr Ile Val Trp Ser Leu  
   1                    5                    10                    15  
 Leu Phe Leu Arg Ser Leu Asp Val Val Ala Glu Gln Arg Arg Thr His  
                     20                    25                    30  
 Val Thr Met Ala Ile Ser Trp Ile Thr Ile Val Val Pro Leu Leu Thr  
                     35                    40                    45  
 Phe Glu Val Leu Leu Val His Arg Leu Asp Gly His Asn Thr Phe Ser  
                     50                    55                    60  
 Tyr Val Ser Ile Phe Val Pro Leu Trp Leu Ser Leu Leu Thr Leu Met  
   65                    70                    75                    80  
 Ala Thr Thr Phe Arg Arg Lys Gly Gly Asn His Trp Trp Phe Gly Ile  
                     85                    90                    95  
 Arg Arg Asp Phe Cys Gln Phe Leu Leu Glu Xaa Phe Pro Phe Leu Arg  
                     100                    105                    110  
 Glu Tyr Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Ser Glu Asp  
                     115                    120                    125  
 Ala Glu Glu Xaa Ser Val Pro Glu Ala Pro Lys Ile Ala Pro Ile Phe  
                     130                    135                    140  
 Gly Lys Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val  
   145                    150                    155                    160  
 Pro Pro Pro Pro Lys Leu Asn Ile Asp Met Pro Asp

165

170

<210> 1824  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 1824  
 Met Leu Ser Ala Val Leu Thr Met Leu Arg Phe Ile Ile Ala Phe Ser  
           1                  5                  10                  15  
 Leu Leu Phe Cys Ser Cys Ser Thr Asp Lys His Cys Thr Trp Tr His  
                   20                  25                  30  
 Ala Leu Pro His Phe Lys Lys Ile Cys Leu Thr Glu Arg Lys Lys Met  
                   35                  40                  45  
 Trp Phe Gly Leu Ala Ala Val Leu Ile Tyr Gly Ile  
           50                  55                  60

<210> 1825  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 1825  
 Ile Thr Phe Ser Cys Phe Phe Cys Asn Asn Cys Ser Gln Val Asn Leu  
           1                  5                  10                  15  
 Gln

<210> 1826  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1826

Met Arg Phe Trp Phe Leu Val Phe Xaa Phe Phe Phe Phe Pro Glu Ala  
1 5 10 15

His Val Tyr Pro Thr Ser Trp Xaa Val Ser Gu Gln Gly Xaa Ala Thr  
20 25 30

Ile Ser Val Thr Pro Gly Ile Leu Asn Trp Ile Phe Val Glu Glu Glu  
35 40 45

Asn Asn Thr Val Leu Asp Phe Pro  
50 55

<210> 1827

<211> 106

<212> PRT

<213> Homo sapiens

<400> 1827

Arg Ser Arg Ser Lys Pro Arg Cys Asn Cys Glu Ile Val Thr Ile Phe  
1 5 10 15

Phe Ala Arg Phe Lys Ile Gly Pro Gly Arg HisArg Lys Arg Lys Ile  
20 25 30

Pro Lys Leu Cys Ser Ser Gly Ser Thr Ile Gly Arg Val Tyr Ser Leu  
35 40 45

Pro Gly Leu Leu Arg Arg Gly Ser Cys Leu Phe Gly Tyr IleThr Pro  
50 55 60

Asp Trp Phe Val Leu Lys Ile Asn Val Ile Met Leu Val Ser Tyr Leu  
65 70 75 80

Met Val Ser Leu Glu His Ser Pro Leu Ile Leu Phe Glu Arg Val Gly  
85 90 95

Gly Arg Asp Cys Glu Gly Arg Glu Lys Cys  
100 105

<210> 1828

<211> 279

<212> PRT

<213> Homo sapiens

<400> 1828

Glu Glu Arg Trp Lys Ser Pro Glu Val ArgTrp Ala Pro Gly Val Ala  
1 5 10 15

Met Glu Glu Ser Gly Tyr Glu Ser Val Leu Cys Val Lys Pro Asp Val  
20 25 30

His Val Tyr Arg Ile Pro Pro Arg Ala Thr AsnArg Gly Tyr Arg Ala  
                   35                                  40                                  45  
 Ala Glu Trp Gln Leu Asp Gln Pro Ser Trp Ser Gly Arg Leu Arg Ile  
                   50                                  55                                  60  
 Thr Ala Lys Gly Gln Met Ala Tyr Ile Lys Leu Glu Asp Arg Thr Ser  
                   65                                  70                                  75                                  80  
 Gly Glu Leu Phe Ala Gln Ala Pro Val Asp Gln Phe Pro Gly Thr Ala  
                                   85                                  90                                  95  
 Val Glu Ser Val Thr Asp Ser Ser Arg Tyr Phe Val Ile Arg IleGlu  
                                   100                                  105                                  110  
 Asp Gly Asn Gly Arg Arg Ala Phe Ile Gly Ile Gly Phe Gly Asp Arg  
                                   115                                  120                                  125  
 Gly Asp Ala Phe Asp Phe Asn Val Ala Leu Gln Asp His Phe Lys Trp  
                                   130                                  135                                  140  
 Val Lys Gln Gln Cys Glu Phe Ala Lys Gln Ala Gln Asn Pro Asp Gln  
                                   145                                  150                                  155                                  160  
 Gly Pro Lys Leu Asp Leu Gly Phe Lys Glu Gly Gln Thr Ile Lys Leu  
                                   165                                  170                                  175  
 Asn Ile Ala Asn Met Lys Lys Lys Glu Gly Ala Ala Gly Asn Pro Arg  
                                   180                                  185                                  190  
 Val Arg Pro Ala Ser Thr Gly Gly Leu Ser Leu Leu Pro Pro Pro Pro  
                                   195                                  200                                  205  
 Gly Gly Lys Thr Ser Thr Leu Ile Pro Pro Pro Gly Glu Gln Leu Ala  
                                   210                                  215                                  220  
 Val Gly Gly Ser Leu Val Gln Pro Ala Val Ala Pro Ser Ser Gly Gly  
                                   225                                  230                                  235                                  240  
 Ala Pro Val Pro Trp Pro Gln Pro Asn Pro Ala Thr Ala Asp Ile Trp  
                                   245                                  250                                  255  
 Gly Asp Phe Thr Lys Ser Thr Gly Ser Thr Ser Ser Gln Thr Gln Pro  
                                   260                                  265                                  270  
 Gly Thr Gly Trp Val Gln Phe  
                                   275

<210> 1829  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 1829  
 Met Leu Phe Pro Leu Leu Ala Trp Pro His Leu Leu Ser Leu Trp Val

1	5	10	15												
Cys	Leu	Thr	Ala	Thr	Ser	Pro	Ser	Lys	Pro	Ser	Ala	Pro	His	Ser	His
			20					25					30		
Gln	Met	Asp	Leu	Cys	Leu	Leu	His								
		35					40								
<210> 1830															
<211> 305															
<212> PRT															
<213> Homo sapiens															
<400> 1830															
Met	Ala	Ala	Gly	Leu	Ala	Arg	Leu	Leu	Leu	Leu	Leu	Gly	Leu	Ser	Ala
1				5					10					15	
Gly	Gly	Pro	Ala	Pro	Ala	Gly	Ala	Ala	Lys	Met	Lys	Val	Val	Glu	Glu
			20					25					30		
Pro	Asn	Ala	Phe	Gly	Val	Asn	Asn	Pro	Phe	Leu	Pro	Gln	Ala	Ser	Arg
		35					40					45			
Leu	Gln	Ala	Lys	Arg	Asp	Pro	Ser	Pro	Val	Ser	Gly	Pro	Val	His	Leu
	50					55					60				
Phe	Arg	Leu	Ser	Gly	Lys	Cys	Phe	Ser	Leu	Val	Glu	Ser	Thr	Tyr	Lys
	65				70					75					80
Tyr	Glu	Phe	Cys	Pro	Phe	His	Asn	Val	Thr	Gln	His	Glu	Gln	Thr	Phe
				85					90					95	
Arg	Trp	Asn	Ala	Tyr	Ser	Gly	Ile	Leu	Gly	Ile	Trp	His	Glu	Trp	Glu
			100					105					110		
Ile	Ala	Asn	Asn	Thr	Phe	Thr	Gly	Met	Trp	Met	Arg	Asp	Gly	Asp	Ala
		115					120					125			
Cys	Arg	Ser	Arg	Ser	Arg	Gln	Ser	Lys	Val	Glu	Leu	Ala	Cys	Gly	Lys
	130					135					140				
Ser	Asn	Arg	Leu	Ala	His	Val	Ser	Glu	Pro	Ser	Thr	Cys	Val	Tyr	Ala
	145				150					155					160
Leu	Thr	Phe	Glu	Thr	Pro	Leu	Val	Cys	His	Pro	His	Ala	Leu	Leu	Val
				165					170					175	
Tyr	Pro	Thr	Leu	Pro	Glu	Ala	Leu	Gln	Arg	Gln	Trp	Asp	Gln	Val	Glu
			180					185					190		
Gln	Asp	Leu	Ala	Asp	Glu	Leu	Ile	Thr	Pro	Gln	Gly	His	Glu	Lys	Leu
		195					200					205			
Leu	Arg	Thr	Leu	Phe	Glu	Asp	Ala	Gly	Tyr	Leu	Lys	Thr	Pro	Glu	Glu
	210					215					220				

Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro As Ser Leu Gly Phe Glu  
 225 230 235 240  
 Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile  
 245 250 255  
 Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg  
 260 265 270  
 Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg  
 275 280 285  
 Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Le Arg Gly Ser  
 290 295 300  
 Leu  
 305

<210> 1831  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1831  
 Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly  
 1 5 10 15  
 Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr  
 20 25 30  
 Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala  
 35 40 45  
 Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp  
 50 55 60  
 Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly  
 65 70 75 80  
 Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp  
 85 90 95  
 Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys  
 100 105 110  
 Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Xaa  
 115 120 125

<210> 1832  
 <211> 190  
 <212> PRT  
 <213> Homo sapiens

<400> 1832  
 Met Ser Ser Gly Thr Glu Leu Leu Trp Pro Gly Ala Ala Leu Leu Val  
   1                  5                  10                  15  
 Leu Leu Gly Val Ala Ala Ser Leu Cys Val Arg Cys Ser Arg Pro Gly  
                   20                  25                  30  
 Ala Lys Arg Ser Glu Lys Ile Tyr Gln Gln Arg Ser Leu Arg Glu Asp  
                   35                  40                  45  
 Gln Gln Ser Phe Thr Gly Ser Arg Thr Tyr Ser Leu Val Gly Gln Ala  
                   50                  55                  60  
 Trp Pro Gly Pro Leu Ala Asp Met Ala Pro Thr Arg Lys Asp Lys Leu  
   65                  70                  75                  80  
 Leu Gln Phe Tyr Pro Ser Leu Glu Asp Pro Ala Ser Ser Arg Tyr Gln  
                   85                  90                  95  
 Asn Phe Ser Lys Gly Ser Arg His Gly Ser Glu Glu Ala Tyr Ile Asp  
                   100                  105                  110  
 Pro Ile Ala Met Glu Tyr Tyr Asn Trp Gly Arg Phe Ser Lys Pro Pro  
                   115                  120                  125  
 Glu Asp Asp Asp Ala Asn Ser Tyr Glu Asn Val Leu Ile Cys Lys Gln  
                   130                  135                  140  
 Lys Thr Thr Glu Thr Gly Ala Gln Gln Glu Gly Ile Gly Gly Leu Cys  
   145                  150                  155                  160  
 Arg Gly Asp Leu Ser Leu Ser Leu Ala Leu Lys Thr Gly Pro Thr Ser  
                   165                  170                  175  
 Gly Leu Cys Pro Ser Ala Ser Pro Glu Glu Asp Glu Gly Ile  
                   180                  185                  190

<210> 1833  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE



<222> (136)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (138)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1833  
 Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Leu Gln Glu Gly  
   1                  5                  10                  15  
  
 Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly SerGlu Glu Val Val Ala  
                   20                  25                  30  
  
 Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu  
                   35                  40                  45  
  
 Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu AlaThr Val  
                   50                  55                  60  
  
 Val Pro Gly Lys Glu Gly His Pro Ala Thr Ile Met Val Thr Asn Pro  
   65                  70                  75                  80  
  
 His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Xaa Tyr Ser Leu His  
                   85                  90                  95  
  
 Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Tyr Gln Ala Gln Val  
                   100                  105                  110  
  
 Asn Leu Arg Thr Ser Gln Ile Ser Thr Met Gln Gln Tyr Asn Leu Cys  
   115                  120                  125  
  
 Val Tyr Arg Trp Leu Ser Glu Xaa Pro Xaa His Cys Glu Leu  
   130                  135                  140  
  
  
 <210> 1834  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <220>  
 <221> SITE  
 <222> (109)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1834  
 Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu  
   1                  5                  10                  15  
 Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His  
                   20                  25                  30  
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln  
                   35                  40                  45  
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser  
                   50                  55                  60  
 Thr Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser  
                   65                  70                  75                  80  
 Ser Ala Trp Asn Pro Gly Ala Leu Lys Gly Pro Xaa Thr Ala Ala Thr  
                   85                  90                  95  
 Lys Asp Thr Xaa Leu Thr Ser Leu Arg Met Ser Lys Xaa Gly Pro Gly  
                   100                  105                  110  
 His Trp Ala Xaa Lys Thr Ser Trp Cys Lys  
                   115                  120

<210> 1835  
 <211> 216  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1835  
 Cys Phe Pro Trp Gly Xaa Ala Leu Arg Gln Lys Leu Phe Pro Ser Ala  
   1                  5                  10                  15  
 Leu Xaa Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala Thr Lys  
                   20                  25                  30  
 Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser Leu Val  
                   35                  40                  45

Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu Ser Gln  
 50 55 60  
 Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp Ala Arg  
 65 70 75 80  
 Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn Arg Phe  
 85 90 95  
 Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu Arg Pro  
 100 105 110  
 Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser Ser Ser  
 115 120 125  
 Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val Ala Leu  
 130 135 140  
 Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu His Gly  
 145 150 155 160  
 Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His Ser Met  
 165 170 175  
 Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser Thr Ser  
 180 185 190  
 Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly Val Ala  
 195 200 205  
 Val Ser Leu Ser His Ile Arg Asn  
 210 215

<210> 1836  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 1836  
 Met Ala Leu Lys Asn Lys Phe Ser Cys Leu Trp Ile Leu Gly Leu Cys  
 1 5 10 15  
 Leu Val Ala Thr Thr Ser Ser Lys Ile Pro Ser Ile Thr Asp Pro His  
 20 25 30  
 Phe Ile Asp Asn Cys Ile Glu Ala His Asn Glu Trp Arg Gly Lys Val  
 35 40 45  
 Asn Pro Pro Ala Ala Asp Met Lys Tyr Met Ile Trp Asp Lys Gly Leu  
 50 55 60  
 Ala Lys Met Ala Lys Ala Trp Gly Lys Pro Val Gln Ile  
 65 70 75

<210> 1837  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1837  
 Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro  
   1                  5                  10                  15  
 Ala Leu Ala Leu Tyr Val Phe Thr Ile Ala Xaa Glu Pro Leu Arg Ile  
                   20                  25                  30  
 Ile Phe Leu Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile  
           35                  40                  45  
 Ser Ser Leu Val Trp Phe Met Ala Arg Val Ile Ile Asp Asn Lys Asp  
       50                  55                  60  
 Gly Pro Thr Gln Lys Tyr Leu Leu Ile Phe Gly Ala Phe Val Ser Val  
   65                  70                  75                  80  
 Tyr Ile Gln Glu Met Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys  
                   85                  90                  95  
 Ala Ser Glu Gly Leu Lys Ser Ile Asn Pro Gly Glu Thr Ala Pro Ser  
           100                  105                  110  
 Met Arg Leu Leu Ala Tyr Val Ser Gly Leu Gly Phe Gly Ile Met Ser  
   115                  120                  125  
 Gly Val Phe Ser Phe Val Asn Thr Leu Ser Asp Ser Leu Gly Pro Gly  
   130                  135                  140  
 Thr Val Gly Ile His Gly Asp Ser Pro Gln Phe Phe Leu Tyr Ser Ala  
  145                  150                  155                  160  
 Phe Met Thr Leu Val Ile Ile Leu Leu His Val Phe Trp Gly Ile Val  
           165                  170                  175  
 Phe Phe Asp Gly Cys Glu Lys Lys Lys Trp Gly Ile Leu Leu Ile Val  
   180                  185                  190  
 Leu Leu Thr His Leu Leu Val Ser Ala Gln Thr Phe Ile Ser Ser Tyr  
   195                  200                  205  
 Tyr Gly Ile Asn Leu Ala Ser Ala Phe Ile Ile Leu Val Leu Met Gly  
   210                  215                  220  
 Thr Trp Ala Phe Leu Ala Ala Gly Gly Ser Cys Arg Ser Leu Lys Leu  
  225                  230                  235                  240

Cys Leu Leu Cys Gln Asp Lys Asn Phe Leu Leu Tyr Asn Gln Arg Ser  
245 250 255

Arg

<210> 1838  
<211> 94  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1838  
Arg Xaa Pro Ile Phe Ile Gly Glu Asn Phe Tyr Pro Pro Val Arg Gly  
1 5 10 15

Arg Val Gly Met Ser Ala Cys Gln Gly Gly Gly Gly Gly Gly Gly  
20 25 30

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly  
35 40 45

Gly Gly Gly Gly Val Asp Lys Leu Pro CysLeu Thr Met Cys Trp Cys  
50 55 60

Gly Asn Gly Ala Gln Pro Ala Arg Leu Lys Val Asp Gly Ile Pro Thr  
65 70 75 80

Gly Gln Arg Lys Ser Tyr Ala Asp Thr Pro Ala TrpPro Gly  
85 90

<210> 1839  
<211> 82  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring amino acids

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1839  
Pro Gly Asn Glu Val Thr Asp Gly Gln Pro Arg Gln Pro Leu Arg Arg

1	5	10	15
Leu Arg Leu Pro Cys Gly Ala Ser Leu Xaa Arg Xaa Pro Ala Ser Pro	20	25	30
Ser Asp Ala Ile Gln Arg Ala Leu Pro Gly Arg Lys Leu Pro Arg Trp	35	40	45
Asn Ala Ser Pro Glu Gln Arg Val Ala Val Pro Cys Gly Gly Leu Thr	50	55	60
Gln Trp Leu Asn Thr Gly Lys Glu Leu Ala Leu Gly Val Arg Thr Ser	65	70	75
			80
Glu Thr			

<210> 1840

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1840

Asn Leu Xaa Cys Cys Glu Pro Leu Lys Gly Thr Glu Ile Val His Leu	1	5	10	15
Xaa Ser Ser Asp Phe Lys Ala Val Ala Cys Arg Cys Ser Gln Leu Asn	20	25	30	
Lys Ala Leu Pro Ser Thr Thr Leu Arg Gly Phe Val Cys Gly Ser Ser	35	40	45	
Cys Tyr Ile Ser Trp Phe Pro Asn Gln Glu Thr Arg	50	55	60	

<210> 1841

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1841

Met	Ser	Pro	Arg	Gly	Thr	Gly	Cys	Ser	Ala	Gly	Leu	Leu	Met	Thr	Val
1				5					10					15	

Gly	Trp	Leu	Leu	Leu	Ala	Gly	Leu	Gln	Ser	Ala	Arg	Gly	Thr	Asn	Val
		20					25						30		

Thr	Ala	Ala	Val	Gln	Asp	Ala	Gly	Leu	Ala	His	Glu	Gly	Glu	Gly	Glu
		35					40					45			

Glu	Glu	Thr	Glu	Asn	Asn	Asp	Ser	Glu	Thr	Ala	Glu	Asn	Tyr	Ala	Pro
	50					55					60				

Ser	Glu	Thr	Glu	Asp	Val	Ser	Asn	Arg	Asn	Xaa	Val	Lys	Glu	Val	Glu
65					70					75					80

Phe	Gly	Met	Cys	Thr	Val	Thr	Cys	Gly	Ile	Gly	Val	Arg	Glu	Val	Ile
				85					90					95	

Leu	Thr	Asn	Gly	Cys	Pro	Gly	Gly	Glu	Ser	Lys	Cys	Val	Val	Arg	Val
			100					105						110	

Glu	Glu	Cys	Pro	Trp	Thr	Asn	Arg	Leu	Trp	Leu	Gly
		115					120				

<210> 1842

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1842

Met	Pro	Arg	Cys	Arg	Trp	Leu	Ser	Leu	Ile	Leu	Leu	Thr	Ile	Pro	Leu
1				5					10					15	

Ala	Leu	Val	Ala	Arg	Lys	Asp	Pro	Lys	Lys	Asn	Glu	Thr	Gly	Val	Leu
			20					25					30		

Arg	Lys	Leu	Lys	Pro	Val	Asn	Ala	Phe	Xaa	Cys	Gln	Arg	Gly	Ser	Ser
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35                      40                      45  
 Val Xaa Gly Phe Ala Met Gln Glu Tyr Asn Lys Glu Ser Glu Asp Lys  
     50                      55                      60  
 Tyr Val Phe Leu Val Val Lys Thr Leu Gln Ala Gln Leu Gln Val Thr  
     65                      70                      75                      80  
 Asn Leu Leu Glu Tyr Leu Ile Asp Val Glu Ile Ala Arg Ser Asp Cys  
                     85                      90                      95  
 Arg Lys Pro Leu Ser Thr Asn Glu Ile Ala Pro Phe Lys Xaa Thr Pro  
                     100                      105                      110  
 Ser

<210> 1843  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 1843  
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met  
     1                      5                      10                      15  
 Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser  
                     20                      25                      30  
 Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro Lys Tyr Trp  
                     35                      40                      45  
 Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro  
                     50                      55                      60  
 Asn Ser Thr Asn His Val Ala Leu Lys Asp Thr Gly Asn Gln Leu Ile  
     65                      70                      75                      80  
 Val Thr Met Ser Cys Leu Asn Lys Glu Asp Thr Gly Trp Tyr Trp Cys  
                     85                      90                      95  
 Gly Ile Gln Arg Asp Phe Ala Arg Asp Asp Met Asp Phe Thr Glu Leu  
                     100                      105                      110  
 Ile Val Thr Asp Asp Lys Gly Thr Trp Pro Met Thr Leu Val Trp Glu  
                     115                      120                      125  
 Arg Leu Ser Gly Thr Lys Pro Glu Ala Ala Arg Leu Pro Lys Leu Ser  
                     130                      135                      140  
 Ala Arg Leu Thr Ala Pro Gly Arg Pro Phe Ser Ser Phe Ala Tyr  
                     145                      150                      155



<210> 1844  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1844  
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met  
   1                  5                  10                  15  
 Val Met Asp Glu Lys Val Lys Arg Ser Leu Cys Trp Thr Arg Leu Leu  
                   20                  25                  30  
 Pro Ser Ala Thr Thr Met Pro Xaa Thr Arg Ile Thr Pro Asn Thr Gly  
                   35                  40                  45  
 Ala Glu Xaa Ile Ser Val Xaa Thr Ala Thr Ser Ser Pro Ser Pro Leu  
   50                  55                  60  
 Thr Ala Pro Ile Met Trp Pro  
   65                  70

<210> 1845  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 1845  
 Met Ala Phe Gly Gln Glu Val Thr His Leu Thr Lys Thr Ser Trp Leu  
   1                  5                  10                  15  
 Ala Pro Leu Arg Phe Ile Lys Gly Leu Leu Gly Pro Trp Gly Trp Ile  
                   20                  25                  30  
 Leu Leu Ile Leu Asp Leu Glu  
   35

<210> 1846  
 <211> 38

<212> PRT

<213> Homo sapiens

<400> 1846

Met Val Ser Lys His Ser Leu Asn Leu His Phe Phe Tyr Trp Lys Gly  
1 5 10 15

Gly Cys Ala Cys Phe Thr Ser Glu Pro Arg Val Phe Val Val Val Glu  
20 25 30

Leu Ser Leu Leu Asp Cys  
35

<210> 1847

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1847

Arg Thr Leu Arg Met Ser Pro Ser Ala Phe Cys Tyr Ser Leu Thr Leu  
1 5 10 15

Leu Ala Cys Trp Arg Ala Ala Trp Ile Pro Thr Cys Val Pro Arg Ala  
20 25 30

Ala Gly Glu Met Asp Ser Pro Gly Leu Ala Asp Gly His Trp Cys Ser  
35 40 45

Gly Ala Ala Arg Arg Ser Pro His Tyr Val Ala Arg Ser Leu Val Leu  
50 55 60

<210> 1848

<211> 5

<212> PRT

<213> Homo sapiens

<400> 1848

Ala Gly Thr Trp Ser  
1 5

<210> 1849

<211> 170

<212> PRT

<213> Homo sapiens

<400> 1849

Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg  
1 5 10 15

Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp  
                   20                                  25                                  30  
 Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys  
                   35                                  40                                  45  
 Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile  
                   50                                  55                                  60  
 Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr  
                   65                                  70                                  75                                  80  
 Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln  
                                   85                                  90                                  95  
 Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly  
                                   100                                  105                                  110  
 Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln  
                   115                                  120                                  125  
 Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu  
                   130                                  135                                  140  
 Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His  
                   145                                  150                                  155                                  160  
 Ala Val His Pro Thr Gly Thr Lys Ala Leu  
                                   165                                  170

<210> 1850  
 <211> 170  
 <212> PRT  
 <213> Homo sapiens

<400> 1850  
 Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg  
                   1                                  5                                  10                                  15  
 Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp  
                   20                                  25                                  30  
 Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys  
                   35                                  40                                  45  
 Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile  
                   50                                  55                                  60  
 Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr  
                   65                                  70                                  75                                  80  
 Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln  
                                   85                                  90                                  95

Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly  
100 105 110  
Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln  
115 120 125  
Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu  
130 135 140  
Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His  
145 150 155 160  
Ala Val His Pro Thr Gly Thr Lys Ala Leu  
165 170

<210> 1851  
<211> 60  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1851  
Met Xaa Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser  
1 5 10 15  
Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly  
20 25 30  
Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu  
35 40 45  
Leu Pro Arg Thr Asn Leu Lys Ala Lys Val Pro Gly  
50 55 60

<210> 1852  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 1852  
Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys  
1 5 10 15  
Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser  
20 25 30  
Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu  
35 40 45

Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu  
50 55 60

<210> 1853

<211> 322

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1853

Arg Ala Pro Arg Arg Thr Gly Pro Ala Ser Phe Ser Ser Arg Pro Ala  
1 5 10 15

Gly Thr Cys Ser Asp Asn Arg Val Thr Ser Phe Xaa Asp Leu Ile His  
20 25 30

Asp Gln Asp Glu Asp Glu Glu Glu Glu Gly Gln Arg Phe Tyr Ala  
35 40 45

Gly Gly Ser Glu Arg Ser Gly Gln Gln Ile Val Gly Pro Pro Arg Lys  
50 55 60

Lys Ser Pro Asn Glu Leu Val Asp Asp Leu Phe Lys Gly Ala Lys Glu  
65 70 75 80

His Gly Ala Val Ala Val Glu Arg Val Thr Lys Ser Pro Gly Glu Thr  
85 90 95

Ser Lys Pro Arg Pro Phe Ala Gly Gly Gly Tyr Arg Leu Gly Ala Ala  
100 105 110

Pro Glu Glu Glu Ser Ala Tyr Val Ala Gly Glu Lys Arg Gln His Ser  
115 120 125

Ser Gln Asp Val His Val Val Leu Lys Leu Trp Lys Ser Gly Phe Ser  
130 135 140

Leu Asp Asn Gly Glu Leu Arg Ser Tyr Gln Asp Pro Ser Asn Ala Gln  
145 150 155 160

Phe Leu Glu Ser Ile Arg Arg Gly Glu Val Pro Ala Glu Leu Arg Arg  
165 170 175

Leu Ala His Gly Gly Gln Val Asn Leu Asp Met Glu Asp His Arg Asp  
180 185 190

Glu Asp Phe Val Lys Pro Lys Gly Ala Phe Lys Ala Phe Thr Gly Glu  
195 200 205

Gly Gln Lys Leu Gly Ser Thr Ala Pro Gln Val Leu Ser Thr Ser Ser  
210 215 220

Pro Ala Gln Gln Ala Glu Asn Glu Ala Lys Ala Ser Ser Ser Ile Leu  
 225 230 235 240  
 Ile Asp Glu Ser Glu Pro Thr Thr Asn Ile Gln Ile Arg Leu Ala Asp  
 245 250 255  
 Gly Gly Arg Leu Val Gln Lys Phe Asn His Ser His Arg Ile Ser Asp  
 260 265 270  
 Ile Arg Leu Phe Ile Val Asp Ala Arg Pro Ala Met Ala Ala Thr Ser  
 275 280 285  
 Phe Ile Leu Met Thr Thr Phe Pro Asn Lys Glu Leu Ala Asp Glu Ser  
 290 295 300  
 Gln Thr Leu Lys Glu Ala Asn Leu Leu Asn Ala Val Ile Val Gln Arg  
 305 310 315 320  
 Leu Thr

<210> 1854  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 1854  
 Ser Cys Ile Ser Trp Val Phe Val Met Ile Asn Gly Leu  
 1 5 10

<210> 1855  
 <211> 240  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1855  
 Gly Glu Gly Asp Asp Lys Glu Glu Ser Val Glu Lys Leu Asp Cys His  
 1 5 10 15  
 Tyr Ser Gly His His Pro Gln Pro Ala Ser Phe Cys Thr Phe Gly Ser  
 20 25 30  
 Arg Gln Ile Gly Arg Gly Tyr Tyr Val Phe Asp Ser Arg Trp Asn Arg  
 35 40 45  
 Leu Arg Cys Ala Leu Asn Leu Met Val Glu Lys His Leu Asn Ala Gln  
 50 55 60

Leu Trp Xaa Lys Ile Pro Pro Val Pro Ser Thr Thr Ser Pro Ile Ser  
 65 70 75 80  
 Thr Arg Ile Pro His Arg Thr Asn Ser Val Pro Thr Ser Gln Cys Gly  
 85 90 95  
 Val Ser Tyr Leu Ala Ala Ala Thr Val Ser Thr Ser Pro Val Leu Leu  
 100 105 110  
 Ser Ser Thr Cys Ile Ser Pro Asn Ser Lys Ser Val Pro Ala His Gly  
 115 120 125  
 Thr Thr Leu Asn Ala Gln Pro Ala Ala Ser Gly Ala Met Asp Pro Val  
 130 135 140  
 Cys Ser Met Gln Ser Arg Gln Val Ser Ser Ser Ser Ser Ser Pro Ser  
 145 150 155 160  
 Thr Pro Ser Gly Leu Ser Ser Val Pro Ser Ser Pro Met Ser Arg Lys  
 165 170 175  
 Pro Gln Lys Leu Lys Ser Ser Lys Ser Leu Arg Pro Lys Glu Ser Ser  
 180 185 190  
 Gly Asn Ser Thr Asn Cys Gln Asn Ala Ser Ser Ser Thr Ser Gly Gly  
 195 200 205  
 Ser Gly Lys Lys Arg Lys Asn Ser Ser Pro Leu Leu Val His Ser Ser  
 210 215 220  
 Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser His Ser Met Gly Val Phe  
 225 230 235 240

<210> 1856

<211> 362

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1856

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro  
 1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys  
 20 25 30

Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg

35                      40                      45  
 Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His  
     50                      55                      60  
 Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp  
     65                      70                      75                      80  
 Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr  
                     85                      90                      95  
 Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln  
                     100                      105                      110  
 Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp  
                     115                      120                      125  
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu  
                     130                      135                      140  
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe  
     145                      150                      155                      160  
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr  
                     165                      170                      175  
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu  
                     180                      185                      190  
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly  
                     195                      200                      205  
 Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly  
                     210                      215                      220  
 Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro  
     225                      230                      235                      240  
 Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro  
                     245                      250                      255  
 Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly  
                     260                      265                      270  
 Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala  
                     275                      280                      285  
 Arg Tyr Ile Gln Thr Leu Lys Asp His ArgPro Arg Met Val Trp Asp  
                     290                      295                      300  
 Ser Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly  
     305                      310                      315                      320  
 Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser LeuGln Val Arg Leu  
                     325                      330                      335  
 Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly



340	345	350
Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu		
355	360	

<210> 1857  
 <211> 415  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (338)  
 <223> Xaa equals any of the naturally occurring amino acids  
  
 <400> 1857  
 Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Po  
   1                  5                  10                  15  
 Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys  
                   20                  25                  30  
 Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg  
           35                  40                  45  
 Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His  
   50                  55                  60  
 Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp  
   65                  70                  75                  80  
 Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr  
                   85                  90                  95  
 Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln  
           100                  105                  110  
 Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp  
   115                  120                  125  
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu  
   130                  135                  140  
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe  
   145                  150                  155                  160  
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr  
           165                  170                  175  
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu  
           180                  185                  190  
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met  
   195                  200                  205

Leu Thr His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu  
 210 215 220  
 Leu Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met  
 225 230 235 240  
 Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly Phe  
 245 250 255  
 Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro Asn  
 260 265 270  
 Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro Lys  
 275 280 285  
 Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly Met  
 290 295 300  
 Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala Arg  
 305 310 315 320  
 Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp Ser  
 325 330 335  
 Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly Arg  
 340 345 350  
 His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu Glu  
 355 360 365  
 Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Ala Arg  
 370 375 380  
 Ala Trp Thr Thr Ser Thr Thr Cys Ser Arg Trp Ala Leu Arg Pro Pro  
 385 390 395 400  
 Arg Trp Thr Cys Ser Phe Leu Ser His Gly Val Ser Glu Gln Val  
 405 410 415

<210> 1858

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (236)

<223> Xaa equals any of the naturally occurring amino acids .

<400> 1858

Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser  
 1 5 10 15  
 Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val  
 20 25 30  
 Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala  
 35 40 45  
 Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val  
 50 55 60  
 His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln  
 65 70 75 80  
 Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg  
 85 90 95  
 Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr  
 100 105 110  
 Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu  
 115 120 125  
 Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Thr Gly  
 130 135 140  
 Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe  
 145 150 155 160  
 Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser  
 165 170 175  
 Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu  
 180 185 190  
 Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met  
 195 200 205  
 Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly  
 210 215 220  
 Asp Thr Phe Phe Glu Pro Ile Ser Trp Xaa Leu Xaa Thr Lys Val Leu  
 225 230 235 240  
 Gly Ile Leu Cys Cys Gly Leu Phe Phe Gly Ile Val Gly Leu Lys Ile  
 245 250 255  
 Phe Phe Ser Lys Phe Gln Trp Lys Ile Gln Ala Glu Leu Asp Trp Arg  
 260 265 270  
 Arg Lys His Gly Gln Ala Glu Leu Arg Asp Ala Arg Lys His Ala Val  
 275 280 285  
 Glu Val Thr Leu Asp Pro Glu Thr Ala His Pro Lys Leu Cys Val Ser  
 290 295 300

Asp Leu Lys Thr Val Thr His Arg Lys Ala Pro Gln Glu Val Pro His  
 305 310 315 320  
 Ser Glu Lys Arg Phe Thr Arg Lys Ser Val Val Ala Ser Gln Ser Phe  
 325 330 335  
 Gln Ala Gly Lys His Tyr Trp Glu Val Asp Gly Gly His Asn Lys Arg  
 340 345 350  
 Trp Arg Val Gly Val Cys Arg Asp Asp Val Asp Arg Arg Lys Glu Tyr  
 355 360 365  
 Val Thr Leu Ser Pro Asp His Gly Tyr Trp Val Leu Arg Leu Asn Gly  
 370 375 380  
 Glu His Leu Tyr Phe Thr Leu Asn Pro Arg Phe Ile Ser Val Phe Pro  
 385 390 395 400  
 Arg Thr Pro Pro Thr Lys Ile Gly Val Phe Leu Asp Tyr Glu Cys Gly  
 405 410 415  
 Thr Ile Ser Phe Phe Asn Ile Asn Asp Gln Ser Leu Ile Tyr Thr Leu  
 420 425 430  
 Thr Cys Arg Phe Glu Gly Leu Leu Arg Pro Tyr Ile Glu Tyr Pro Ser  
 435 440 445  
 Tyr Asn Glu Gln Asn Gly Thr Pro Arg Asp Lys Gln Gln  
 450 455 460

<210> 1859  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 1859  
 Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala  
 1 5 10 15  
 Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val  
 20 25 30  
 Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asp Asp Leu Asp  
 35 40 45  
 Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln  
 50 55 60  
 Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala  
 65 70 75 80  
 Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala  
 85 90 95  
 Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu

100

105

110

<210> 1860  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 1860  
 Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala  
           1                  5                  10                  15  
 Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Gu Gln Thr Phe His  
                   20                  25                  30  
 Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser  
                   35                  40                  45  
 Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Al Ile  
           50                  55                  60  
 Arg Leu Pro Val Ala Leu Ser Phe Ser Met Gly Leu Gly Leu Leu Ser  
           65                  70                  75                  80  
 Pro Ala Leu Gly Arg Phe Leu Ala Ser Glu Leu  
                   85                  90

<210> 1861  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 1861  
 Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu  
           1                  5                  10                  15  
 Trp Leu Val Leu Ser Cys Leu Cys Ho Ser Ser Pro His Pro Val Ile  
                   20                  25                  30  
 Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro  
                   35                  40                  45  
 Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Ap Leu Gln Arg Glu  
           50                  55                  60  
 Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr  
           65                  70                  75

<210> 1862  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 1862  
Met Cys Trp Ile Cys Val Trp Leu Phe Phe Ser Pro Thr Lys Thr Ser  
1 5 10 15  
Cys Phe Pro Trp Leu Ile Arg Pro Gly Pro Arg Ser Phe Thr Asp Ser  
20 25 30  
His Gly Thr Pro Pro Trp Gln Cys Leu Glu Pro Ser Ser Phe Thr Tyr  
35 40 45  
Pro Gly Lys Gln Val Trp  
50

<210> 1863  
<211> 145  
<212> PRT  
<213> Homo sapiens

<400> 1863  
Met Ser Gln Ala Trp Val Pro Gly Leu AlaPro Thr Leu Leu Phe Ser  
1 5 10 15  
Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu  
20 25 30  
Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly AspSer Cys Cys Gln Glu  
35 40 45  
Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu  
50 55 60  
Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys  
65 70 75 80  
Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly  
85 90 95  
Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Ile LeuLys  
100 105 110  
Pro Ser Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Tyr Ser Phe  
115 120 125  
Arg Pro Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala  
130 135 140  
Phe  
145

<210> 1864  
<211> 68  
<212> PRT

<213> Homo sapiens

<400> 1864

Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys Trp  
1 5 10 15  
Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe Phe  
20 25 30  
Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala Arg  
35 40 45  
Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg Ile  
50 55 60  
Pro Ser Phe Tyr  
65

<210> 1865

<211> 142

<212> PRT

<213> Homo sapiens

<400> 1865

Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val LeuLeu Trp  
1 5 10 15  
Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val  
20 25 30  
Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly AlaArg  
35 40 45  
Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro  
50 55 60  
Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr  
65 70 75 80  
Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro  
85 90 95  
Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln  
100 105 110  
Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln Val Leu  
115 120 125  
Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro Gln  
130 135 140

<210> 1866

<211> 119

<212> PRT  
<213> Homo sapiens

<400> 1866  
Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp  
1 5 10 15  
Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val  
20 25 30  
Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg  
35 40 45  
Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro  
50 55 60  
Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr  
65 70 75 80  
Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro  
85 90 95  
Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln  
100 105 110  
Gly Glu Glu Arg Pro Arg Leu  
115

<210> 1867  
<211> 462  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (115)  
<223> Xaa equals any of the naturally occurring amino acids

<400> 1867  
Met Arg Leu Arg Val Arg Leu Leu Lys Arg Thr Trp Pro Leu Glu Val  
1 5 10 15  
Pro Glu Thr Glu Pro Thr Leu Gly His Leu Arg Ser His Leu Arg Gln  
20 25 30  
Ser Leu Leu Cys Thr Trp Gly Tyr Ser Ser Asn Thr Arg Phe Thr Ile  
35 40 45  
Thr Leu Asn Tyr Lys Asp Pro Leu Thr Gly Asp Glu Glu Thr Leu Ala  
50 55 60  
Ser Tyr Gly Ile Val Ser Gly Asp Leu Ile Cys Leu Ile Leu Gln Asp  
65 70 75 80  
Asp Ile Pro Ala Pro Asn Ile Pro Ser Ser Thr Asp Ser Glu His Ser



85										90					95				
Ser	Leu	Gln	Asn	Asn	Glu	Gln	Pro	Ser	Leu	Ala	Thr	Ser	Ser	Asn	Gln				
			100					105						110					
Thr	Ser	Xaa	Gln	Asp	Glu	Gln	Pro	Ser	Asp	Ser	Phe	Gln	Gly	Gln	Ala				
		115					120					125							
Ala	Gln	Ser	Gly	Val	Trp	Asn	Asp	Asp	Ser	Met	Leu	Gly	Pro	Ser	Gln				
		130				135					140								
Asn	Phe	Glu	Ala	Glu	Ser	Ile	Gln	Asp	Asn	Ala	His	Met	Ala	Glu	Gly				
145					150				155					160					
Thr	Gly	Phe	Tyr	Pro	Ser	Glu	Pro	Met	Leu	Cys	Ser	Glu	Ser	Val	Glu				
			165						170					175					
Gly	Gln	Val	Pro	His	Ser	Leu	Glu	Thr	Leu	Tyr	Gln	Ser	Ala	Asp	Cys				
		180						185					190						
Ser	Asp	Ala	Asn	Asp	Ala	Leu	Ile	Val	Leu	Ile	His	Leu	Leu	Met	Leu				
		195				200						205							
Glu	Ser	Gly	Tyr	Ile	Pro	Gln	Gly	Thr	Glu	Ala	Lys	Ala	Leu	Ser	Met				
	210					215					220								
Pro	Glu	Lys	Trp	Lys	Leu	Ser	Gly	Val	Tyr	Lys	Leu	Gln	Tyr	Met	His				
225				230					235					240					
Pro	Leu	Cys	Glu	Gly	Ser	Ser	Ala	Thr	Leu	Thr	Cys	Val	Pro	Leu	Gly				
			245						250					255					
Asn	Leu	Ile	Val	Val	Asn	Ala	Leu	Asn	Leu	Pro	Asp	Val	Phe	Gly	Leu				
		260						265					270						
Val	Val	Leu	Pro	Leu	Glu	Leu	Lys	Leu	Arg	Ile	Phe	Arg	Leu	Leu	Asp				
		275					280					285							
Val	Arg	Ser	Val	Leu	Ser	Leu	Ser	Ala	Val	Cys	Arg	Asp	Leu	Phe	Thr				
	290					295					300								
Ala	Ser	Asn	Asp	Pro	Leu	Leu	Trp	Arg	Phe	Leu	Tyr	Leu	Arg	Asp	Phe				
305				310					315					320					
Arg	Asp	Asn	Thr	Val	Arg	Val	Gln	Asp	Thr	Asp	Trp	Lys	Glu	Leu	Tyr				
			325						330					335					
Arg	Lys	Arg	His	Ile	Gln	Arg	Lys	Glu	Ser	Pro	Lys	Gly	Arg	Phe	Val				
		340					345						350						
Met	Leu	Leu	Pro	Ser	Ser	Thr	His	Thr	Ile	Pro	Phe	Tyr	Pro	Asn	Pro				
		355					360					365							
Leu	His	Pro	Arg	Pro	Phe	Pro	Ser	Ser	Arg	Leu	Pro	Pro	Gly	Ile	Ile				
	370					375					380								
Gly	Gly	Glu	Tyr	Asp	Gln	Arg	Pro	Thr	Leu	Pro	Tyr	Val	Gly	Asp	Pro				

385		390		395		400
Ile Ser Ser Leu Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro						
	405			410		415
Pro Leu Arg Pro Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn						
	420			425		430
Pro Ile Leu Pro Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg						
	435			440		445
Pro Ser Arg Gly Arg Pro Thr Asp Gly Arg Leu Ser Phe Met						
	450			455		460

<210> 1868  
 <211> 174  
 <212> PRT  
 <213> Homo sapiens

<400> 1868
Met Phe Val Pro Ser Cys Leu Cys Leu Arg Phe Val Val Thr Ser Leu
1 5 10 15
Leu Leu Gln Met Thr His Ser Cys Gly Gly Phe Tyr Ile Cys Val Ile
20 25 30
Phe Glu Thr Ile Leu Ser Glu Phe Lys Thr Gln Ile Gly Arg Leu Tyr
35 40 45
Arg Lys Arg His Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val
50 55 60
Met Leu Leu Pro Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro
65 70 75 80
Leu His Pro Arg Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile
85 90 95
Gly Gly Glu Tyr Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro
100 105 110
Ile Ser Ser Leu Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro
115 120 125
Pro Leu Arg Pro Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn
130 135 140
Pro Ile Leu Pro Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg
145 150 155 160
Pro Ser Arg Gly Arg Pro Thr Asp Gly Arg Leu Ser Phe Met
165 170

<210> 1869  
 <211> 164  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1869  
 Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro  
   1                  5                  10                  15  
 Asp Leu Leu Leu Thr Leu Leu Phe Leu Leu Phe Leu Ala His Gly Val  
                   20                  25                  30  
 Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe  
           35                  40                  45  
 Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala  
   50                  55                  60  
 Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Xaa Arg Leu Cys Trp  
   65                  70                  75                  80  
 Ala Trp Glu Leu Ser Asp Leu His Leu Leu Gln Ser Leu Met Ala Gln  
                   85                  90                  95  
 Ser Cys Ser Ser Ala Leu Arg Thr Ser Val Pro His Gly Ala Leu Xaa  
           100                  105                  110  
 Glu Ala Ala Cys Thr Phe Cys Phe His Leu Thr Leu Leu His Leu Arg  
   115                  120                  125  
 His Ser Pro Pro Ala Tyr Ser Gly Pro Ala Val Ala Leu Leu Val Thr  
   130                  135                  140  
 Val Xaa Ala Tyr Thr Ala Gly Pro TyrVal Cys Phe Phe Asn Pro Ala  
  145                  150                  155                  160  
 Leu Ala Ala Leu

<210> 1870

<211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 1870  
 Met Val Thr Phe Ile Asn Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr  
     1                    5                    10                    15  
 Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro  
                     20                    25                    30  
 Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Phe Gln  
                     35                    40                    45  
 Thr Ala Trp Pro Ala  
             50

<210> 1871  
 <211> 169  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1871  
 Met Val Thr Phe Ile Xaa Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr  
     1                    5                    10                    15  
 Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro  
                     20                    25                    30  
 Asp Val Ile Met Gly Ile Xaa Phe Leu Ala Ala Xaa Thr Ser Val Pro  
                     35                    40                    45  
 Asp Cys Met Ala Ser Leu Ile Val Ala Arg Gln Gly Leu Gly Asp Met  
             50                    55                    60

Ala Val Ser Asn Thr Ile Xaa Ser Asn Val Phe Asp Ile Leu Val Gly  
 65 70 75 80  
 Leu Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser  
 85 90 9  
 Thr Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu  
 100 105 110  
 Leu Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp  
 115 120 125  
 Arg Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile  
 130 135 140  
 Phe Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val  
 145 150 155 160  
 Asn Leu Pro Met Cys Arg Glu Asp Asp  
 165

<210> 1872  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1872  
 Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gy Lys Leu Phe Trp Val  
 1 5 10 15  
 Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu  
 20 25 30  
 Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Sr Glu His Ser Ile  
 35 40 45  
 Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala  
 50 55 60  
 Asn Arg Pro His Val Thr Trp Cys Lys Leu Asn Gly Thr Thr Cys Val  
 65 70 75 80  
 Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Lys Arg Arg Thr Phe His  
 85 90 95  
 Phe Ser Ser Thr Xaa  
 100

<210> 1873  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 1873  
 Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala  
   1                  5                  10                  15  
 Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn  
                   20                  25                  30  
 Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser  
           35                  40                  45  
 Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr  
       50                  55                  60  
 Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn  
   65                  70                  75                  80  
 Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser  
                   85                  90                  95  
 Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe  
           100                  105                  110  
 Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala  
       115                  120                  125  
 Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe  
   130                  135                  140  
 Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp  
 145                  150                  155                  160  
 Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val  
           165                  170                  175  
 Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu  
       180                  185

<210> 1874  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1874  
 Met Ser Gly Leu Ala Ala Ala Ala His Val Phe Arg Val Cys Leu Phe  
   1                  5                  10                  15

Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser  
                   20                  25                  30  
 Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys  
                   35                  40                  45  
 Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala  
                   50                  55                  60  
 Phe Pro Ile Ser Xaa Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser  
                   65                  70                  75                  80  
 Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr  
                   85                  90                  95  
 Ser Phe Ser Val Pro Cys Arg Val Lys  
                   100                  105

<210> 1875  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1875  
 Met Gly Ser Phe Leu His Pro Gln Trp His Leu Leu Ile Thr Phe Cys  
           1                  5                  10                  15  
 Ala Val Leu Gly Lys Gly Leu His Ser Asp Pro Ser Arg Pro Phe Glu  
                   20                  25                  30  
 His Gly Gly Ala Leu Gly Lys Val Pro Arg Gly Arg Ser Thr Leu Leu  
                   35                  40                  45  
 Ser Lys Glu Val Leu Leu Lys Lys Lys Lys Lys Lys Arg  
           50                  55                  60

<210> 1876  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 1876  
 Leu Pro Trp Leu Pro Phe Phe Phe Ser Cys Leu Val Ser Thr Leu Pro  
           1                  5                  10                  15  
 Ser Met Ser Val Ser Ala Phe Ser Leu Val Val Arg Gly Arg Arg Ala  
                   20                  25                  30  
 Phe Thr Ser Val Arg  
           35

<210> 1877  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 1877  
 Pro Leu Cys Leu Ala Leu Glu Leu Gly Trp Val Cys Leu Ser Ser Thr  
           1                  5                  10                  15

<210> 1878  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (113)  
 <223> Xaa equals any of the naturally occurring amino acids

<400> 1878  
 Met Leu Leu Trp Trp Gln Cys Leu Cys Cys His Ala Val Leu GluPro  
           1                  5                  10                  15  
  
 Ala Ala Thr Ala Met Pro Glu Asp Ala Ala Pro Ser Ser Leu Pro Val  
                   20                  25                  30  
  
 Pro Pro Asn Met Thr Ser Ser Arg Phe His Tyr Phe Trp Thr Leu Leu  
           35                  40                  45  
  
 Gln Ile Lys Leu Thr Gln Phe Tyr Ser Lys Pro Arg Ser Leu Ser Ala  
           50                  55                  60  
  
 Thr Pro Glu Lys Asn Ile Gly Leu Gln Glu Pro Glu Arg Arg Glu Arg  
           65                  70                  75                  80  
  
 Phe Thr Gly Glu Ser Cys Arg Trp Glu Leu Lys Ala Lys Ser Cys Leu  
                   85                  90                  95  
  
 Cys Pro Thr Arg Asn Ser Leu Gly Cys Thr Gln Cys His Cys Asp Gly  
                   100                  105                  110  
  
 Xaa Lys Ile Cys Asn  
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<210> 1879  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens



<400> 1879

Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro  
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Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser  
20 25 30

Val Ile Thr Asp Asn Leu Cys Leu  
35 40

<210> 1880

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1880

Met Tyr Ala Ser Val Leu Leu Thr Gly Leu Leu Ser Leu Gln Arg Cys  
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Leu Ala Val Thr Arg Pro Phe Leu Ala Pro Arg Cys Ala Ala Arg Pro  
20 25 30

Trp Pro Ala Ala Cys Cys Trp Arg Ser Gly Trp Pro Pro Cys Cys Ser  
35 40 45

Pro Ser Arg Pro Pro Ser Thr Ala Thr Cys Gly Gly Thr Ala Tyr Ala  
50 55 60

Ser Cys Ala Thr Arg Arg Arg Ser Thr Pro Pro Thr  
65 70 75

<210> 1881

<211> 150

<212> PRT

<213> Homo sapiens

<400> 1881

Met Leu Ala Val Leu Ala Phe Pro Val Gly Val Phe Val Val Ala Val  
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Phe Trp Ile Ile Tyr Ala Tyr Asp Arg Glu Met Ile Tyr Pro Lys Leu  
20 25 30

Leu Asp Asn Phe Ile Pro Gly Trp Leu Asn His Gly Met His Thr Thr  
35 40 45

Val Leu Pro Phe Ile Leu Ile Glu Met Arg Thr Ser His His Gln Tyr  
50 55 60

Pro Ser Arg Ser Ser Gly Leu Thr Ala Ile Cys Thr Phe Ser Val Gly  
65 70 75 80

Tyr Ile Leu Trp Val Cys Trp Val His His Val Thr Gly Met Trp Val

	85		90		95										
Tyr	Pro	Phe	Leu	Glu	His	Ile	Gly	Pro	Gly	Ala	Arg	Ile	Ile	Phe	Phe
			100					105					110		
Gly	Ser	Thr	Thr	Ile	Leu	Met	Asn	Phe	Leu	Tyr	Leu	Leu	Gly	Glu	Val
		115					120					125			
Leu	Asn	Asn	Tyr	Ile	Trp	Asp	Thr	Gln	Lys	Ser	Met	Glu	Glu	Glu	Lys
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Glu	Lys	Pro	Lys	Leu	Glu										
145					150										

<210> 1882

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1882

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Gly	Gly	Ile	Val	Val	Val	Leu	Val	Phe	Thr	Gly	Phe	Val	Trp	Ala	Ala
		20					25					30			

His	Asn	Lys	Asp	Val	Leu	Arg	Arg	Met	Lys	Lys	Arg	Tyr	Pro	Thr	Thr
		35					40					45			

Phe	Val	Met	Val	Val	Met	Leu	Ala	Ser	Tyr	Phe	Leu	Ile	Ser	Met	Phe
	50					55					60				

Gly	Gly	Val	Met	Val	Xaa	Val	Phe	Gly	Ile	Thr	Phe	Pro	Leu	Leu	Leu
65					70					75					80

Met	Phe	Ile	His	Ala	Ser	Leu	Arg	Leu	Arg	Asn	Leu	Lys	Asn	Lys	Leu
				85					90					95	

Glu	Asn	Lys	Met	Glu	Gly
			100		

<210> 1883

<211> 188

<212> PRT

<213> Homo sapiens

<400> 1883

Met Asp Val Asn Ile Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro

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		20						25					30		
Asn	Asn	Arg	Val	Val	Ser	Asn	Leu	Leu	Tyr	Tyr	Gln	Thr	Asn	Tyr	Leu
		35					40					45			
Val	Val	Ala	Ala	Met	Met	Ile	Ser	Ile	Val	Gly	Phe	Leu	Ser	Pro	Phe
	50					55					60				
Asn	Met	Ile	Leu	Gly	Gly	Ile	Val	Val	Val	Leu	Val	Phe	Thr	Gly	Phe
65				70						75					80
Val	Trp	Ala	Ala	His	Asn	Lys	Asp	Val	Leu	Arg	Arg	Met	Lys	Lys	Arg
				85					90					95	
Tyr	Pro	Thr	Thr	Phe	Val	Met	Val	Val	Met	Leu	Ala	Ser	Tyr	Phe	Leu
			100					105					110		
Ile	Ser	Met	Phe	Gly	Gly	Val	Met	Val	Phe	Val	Phe	Gly	Ile	Thr	Phe
		115					120					125			
Pro	Leu	Leu	Leu	Met	Phe	Ile	His	Ala	Ser	Leu	Arg	Leu	Arg	Asn	Leu
	130					135					140				
Lys	Asn	Lys	Leu	Glu	Asn	Lys	Met	Glu	Gly	Ile	Gly	Leu	Lys	Arg	Thr
145					150				155						160
Pro	Met	Gly	Ile	Val	Leu	Asp	Ala	Leu	Glu	Gln	Gln	Glu	Glu	Gly	Ile
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Asn	Arg	Leu	Thr	Asp	Tyr	Ile	Ser	Lys	Val	Lys	Glu				
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<210> 1884  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 1884															
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Ala	Thr	Asp	Ala	Glu	Cys	Leu	Phe	Leu	Cys	Leu	Arg	Ala	Met	Arg	Ile
			20					25					30		
Ser	Leu	Glu	Lys	Gly	Leu	Ser	Arg	Ser	Phe	Ala	Tyr	Phe			
		35					40					45			

<210> 1885  
 <211> 136  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring amino acids

<400> 1885

Xaa Tyr Xaa Ser Cys Arg Lys Xaa Tyr Leu Thr Tyr Gly Xaa Asn Ser  
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Arg Val Asp Pro Arg Val Arg His Val Cys Gly Val Arg Ala His Gly  
20 25 30

Ala Gly Val Pro His Leu Val Ser Gly Gly Asp Glu Val Ser Pro Gly  
35 40 45

Gly Ala Gly Pro Val Ser His SerAla Glu Glu Gln Pro Val His Gln  
50 55 60

Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln Arg Val Phe Leu Cys  
65 70 75 80

Pro Gly Glu Pro Gly Ala Lys Ser Gly ArgHis Leu Ser Gly Gly Val  
85 90 95

Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro Leu Ala Arg Pro Gly  
100 105 110

Ala Val Glu Ser Cys Asn His Glu Val Cys AlaGln Thr Gly Glu Thr  
115 120 125

Val Gln Pro Leu Met Ala Arg Arg  
130 135

<210> 1886

<211> 141

<212> PRT

<213> Homo sapiens

<400> 1886

Gly Gly Glu Arg His Leu His Arg Thr His Pro Arg Leu Pro Gly His  
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Arg Phe Leu Arg Leu His Arg Ala Pro Arg Val Pro His Val Cys Gly  
20 25 30  
Val Arg Ala His Gly Ala Gly Val Pro His Leu Val Ser Gly Gly Asp  
35 40 45  
Glu Val Ser Pro Gly Gly Ala Gly Pro Val Ser His Ser Ala Glu Glu  
50 55 60  
Gln Pro Val His Gln Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln  
65 70 75 80  
Arg Val Phe Leu Cys Pro Gly Glu Pro Gly Ala Lys Ser Gly Arg His  
85 90 95  
Leu Ser Gly Gly Val Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro  
100 105 110  
Leu Ala Arg Pro Gly Ala Val Glu Ser Cys Asn His Glu Val Cys Ala  
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Gln Thr Gly Glu Thr Val Gln Pro Leu Met Ala Arg Arg  
130 135 140

<210> 1887

<211> 839

<212> DNA

<213> Homo sapiens

<400> 1887

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cccaggagtt caagaccagc ctgagcaaca tagggagatg ggatctaccc aaaacactta 660  
acaataaggc tggcatggtg gcatatgcct gtggtcccag ctacttgag gctgaggcag 720  
gagaatcatt taagcctggg agatcgaggc tgcagtgagg tatggtttca actgctgtgc 780  
tccagcctgg gagacagggc aatactgtgt ctctaaaaaa taaaaaataa aaataaaaa 839

<210> 1888

<211> 839

<212> DNA

<213> Homo sapiens

<400> 1888

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<210> 1889

<211> 837

<212> DNA

<213> Homo sapiens

<400> 1889

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<210> 1890

<211> 836

<212> DNA

<213> Homo sapiens

<400> 1890

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<210> 1891  
 <211> 4269  
 <212> DNA  
 <213> Homo sapiens

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<400> 1891
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<210> 1892

<211> 4273

<212> DNA

<213> Homo sapiens

<400> 1892

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<213> Homo sapiens

<400> 1893

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<400> 1894

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<212> DNA

<213> Homo sapiens

<400> 1895

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<211> 5755

<212> DNA

<213> Homo sapiens

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<211> 183

<212> DNA

<213> Homo sapiens

<400> 1921

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<211> 292

<212> DNA

<213> Homo sapiens

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<211> 181

<212> DNA

<213> Homo sapiens

<400> 1923

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<210> 1924

<211> 123

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<210> 1968

<211> 506

<212> DNA

<213> Homo sapiens

<400> 1968

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<211> 456  
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 gcactccagc ctgggtgaca gagcgagact ctgtctcaga aaaaaaagaa caactagagc 180  
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<210> 1973

<211> 336

<212> DNA

<213> Homo sapiens

<400> 1973

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acaagagaga	acacaaaaca	gacccatccc	tgtatagaat	ttggtgatat	atgacagaga	240
tgaccataca	atcaattaga	aaagaaagca	ttgttgatgg	tcctgattga	gtaactatgt	300
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<210> 1974

<211> 1583

<212> DNA

<213> Homo sapiens

<400> 1974

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 <211> 4443  
 <212> DNA  
 <213> Homo sapiens

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<210> 1976

<211> 604

<212> DNA

<213> Homo sapiens

<400> 1976

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<210> 1977

<211> 4442

<212> DNA

<213> Homo sapiens

<400> 1977

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<212> DNA



<213> Homo sapiens

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<211> 286

<212> DNA

<213> Homo sapiens

<400> 2031

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<212> DNA
<213> Homo sapiens

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<211> 158
<212> DNA
<213> Homo sapiens

<400> 2040
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<211> 77

<212> DNA

<213> Homo sapiens

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<210> 2043

<211> 964

<212> DNA

<213> Homo sapiens

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<211> 964

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 2046

<211> 236

<212> DNA

<213> Homo sapiens

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<210> 2047

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<212> DNA

<213> Homo sapiens

<400> 2047

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